

References on Alaska and Adjacent Regions Cited In—*The Geology of Alaska* (George Plafker and H.C. Berg, editors)

Compiled by J.G. Weathers¹ and George Plafker¹

Open-File Report 98-126

1998

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

¹ MS-901, 345 Middlefield Road, Menlo Park, CA 94025-3591

Introductory Note

The purpose of this bibliography is to make available in digital form the extensive list of citations from the comprehensive book, *The Geology of Alaska*, which was published as one of the synthesis volumes of the Decade of North American Geology project series. The citation for the book is:

Plafker, George and Berg, H.C., 1994, eds., *The Geology of Alaska*: Boulder, Colorado, Geological Society of America, The Geology of North America, v. G-1, 1055 p., 13 pls.

The bibliography was compiled from citations in the 33 chapters and 13 plates that describe the geology and geophysics of each of Alaska's principal onshore and offshore regions and also cover a full spectrum of topical subjects that include physiography, lithotectonic terranes, igneous and metamorphic petrology, geochronology, geophysics, geochemistry, sedimentary basins, mineral and energy resources, glaciation, permafrost, neotectionics and tectonic evolution. With a total of 3,200 citations, this is one of the most comprehensive and up-to-date bibliographies available for publications on earth sciences in Alaska and in adjacent regions of Canada and Russia.

Preparation of this bibliography is part of the Geological Survey's effort to develop a comprehensive digital data base on the geology and geophysics of the United States as mandated in the National Geologic Mapping Act of 1992. We hope that these references will be of assistance to earth scientists concerned with Alaska research. References are in standard U.S. Geological Survey and Geological Society of America bibliographic format.

This Open-File Report is being released on the World Wide Web as an Adobe Acrobat PDF file. It can be read and searched on-line or downloaded from the U.S. Geological Survey Web site at:

http://caldera.wr.usgs.gov/akbiblio/OF98-126.PDF

To view this PDF file, you will need to use Adobe Acrobat Reader 3.0 or higher or other software that can translate PDF files. You can download Acrobat Reader at no cost from:

http://www.adobe.com

The authors would appreciate any comments on the bibliography and are especially interested in corrections to errors in the citations. Please email comments to: jweather@mojave.wr.usgs.gov

The citation for this report is:

Weathers, J.G., and Plafker, George, 1998, References on Alaska and adjacent regions cited in—The Geology of Alaska (George Plafker and H.C. Berg, editors): U.S. Geological Survey Open-File Report 98-126, 181 p. (digital file on the World Wide Web at URL http://caldera.wr.usgs.gov/akbiblio/OF98-126.PDF).

- Abbott, G., 1982, Origin of the Clinton Creek asbestos deposit, in Yukon exploration and geology: Exploration and Geological Services Northern Affairs, Indian and Northern Affairs, Canada, p. 18–25.
- Abe, Katsuyuki, 1972, Seismological evidence for a lithospheric tearing beneath the Aleutian Arc: Earth and Planetary Science Letters, v. 14, no. 3, p. 428–432.
- Abe, Katsuyuki, 1981, Magnitudes of large shallow earthquakes from 1904 to 1980: Physics of the Earth and Planetary Interiors, v. 27, p. 72–92.
- Abe, Katsuyuki and Kanamori, Hiroo, 1979, Temporal variation of the activity of intermediate and deep focus earthquakes: Journal of Geophysical Research, v. 84, p. 3589–3595.
- Abe, Katsuyuki and Kanamori, Hiroo, 1980, Magnitudes of great shallow earthquakes from 1953 to 1977: Tectonophysics, v. 62, p. 19–203.
- Abe, Katsuyuki and Noguchi, Shin'ichi, 1983, Determination of magnitude for large shallow earthquakes 1898-1917: Physics of the Earth and Planetary Interiors, v. 32, p. 45–59.
- Abe, Katsuyuki and Noguchi, Shin'ichi, 1983, Revision of magnitudes of large shallow earthquakes 1897–1912: Physics of the Earth and Planetary Interiors, v. 33, p. 1–11.
- Ackerman, R.E., Hamilton, T.D., and Stuckenrath, R., 1979, Early culture complexes on the northern Northwest Coast: Canadian Journal of Archeology, v. 3, p. 195–209.
- Adams, D.D., 1983, Geologic map of the northern contact area of the Arrigetch Peaks pluton, Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 83, scale 1:18,000.
- Adams, John, 1985, Canadian stress data-a compilation to 1985: Seismological Service of Canada, Earth Physics Branch Open-File No. 85–31.
- Adams, K.E., 1991, Permian sedimentation in the north-central Brooks Range, Alaska: Implications for tectonic reconstructions: Fairbanks, University of Alaska, Master's thesis, 122 p.
- Adams, K.E., and Siok, J.P., 1989, Permian stratigraphy in the Atigun Gorge area: A transition between the Echooka and Siksikpuk formations, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 2, p. 267–276.
- Adkison, W.L., and Brosgé, W.P., eds., 1970, Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, Pacific Section, American Association of Petroleum Geologists, 203 p.
- Adkison, W.L., Kelley, J.S., and Newman, K.R., 1975, Lithology and palynology of Tertiary rocks exposed near Capps Glacier and along Chuitna River, Tyonek quadrangle, southern Alaska: U.S. Geological Survey Open-File Report 75–71, 1 plate, 57 p.
- AEIDC (Arctic Environmental Information and Data Center), 1982, Mineral terranes of Alaska: AEIDC, Anchorage, Alaska, 6 sheets, scale 1:1,000,000, 1 p.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Iditarod quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Colo., Report GJBX 80(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Kantishna River quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 94(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, McGrath quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 77(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Norton Bay quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 72(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Nulato quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 73(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Ophir quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 78(80), v. 2, scale 1:500,000.

- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Ruby quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 75(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Sleetmute quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 79(80), v. 2, scale 1:500,000.
- Aero Service Corporation, 1980, National Uranium Resource Evaluation airborne gamma-ray spectrometer and magnetometer survey, Unalakleet quadrangle, Alaska–Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 74(80), v. 2, scale 1:500,000.
- Affolter, R.H., and Stricker, G.D., 1987, Geochemistry of coal from the Cretaceous Corwin and Chandler formations, National Petroleum Reserve in Alaska (NPRA), *in* Tailleur, I. L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Pacific Section, Society of Economic Paleontologists and Mineralogists Special Publication 50, p. 217–224.
- Affolter, R.H., and Stricker, G.D., 1987, Offshore Alaska coal, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins—Beaufort Sea to Baja California: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, v. 6, p. 639–647.
- Affolter, R.H., Simon, F.H., and Stricker, G.D., 1981, Chemical analyses of coal from the Healy, Kenai, Seldovia, and Utukok River 1:250,000 quadrangles, Alaska: U.S. Geological Survey Open-File Report 81–654, 88 p.
- Agapitov, D.I., Ivanov, V.V., and Krainov, V.G., 1973, New data on the geology and prospects in petroleum/gas-bearing Anadyr basin: Akademiya Nauk SSR North-East Group Institute of Interior Center Translations, v.49, p. 23–29 (in Russian).
- Ager, T.A., 1989, History of late Pleistocene and Holocene vegetation in the Copper River Basin, south-central Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian American workshop: U.S. Geological Survey Circular 1026, p. 89–92.
- Ager, T.A., and Brubaker, L., 1985, Quaternary palynology and vegetational history of Alaska, *in* Bryant, V., Jr., and Holloway, R., eds., Pollen records of Late Quaternary North American sediments: Dallas, Texas, American Association of Stratigraphic Palynologists Foundation, p. 353–384.
- Ahlbrandt, T.S., ed., 1979, Preliminary geologic, petrologic, and paleontologic results of the study of Nanushuk Group rocks, North Slope, Alaska: U.S. Geological Survey Circular 794, 163 p.
- Ahlbrandt, T.S., Huffman, A.C., Fox, J.E., and Pasternack, I., 1979, Depositional framework and reservoir-quality studies of selected Nanushuk Group outcrops, North Slope, Alaska, *in* Ahlbrandt, T.S., ed., Preliminary geologic, petrologic, and paleontologic results of the study of Nanushuk Group rocks, North slope, Alaska: U.S. Geological Survey Circular 794, p. 14–31
- Alaska Division of Geological and Geophysical Surveys, 1973 (revised 1977), Aeromagnetic map, eastern two-thirds of Healy quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 9, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Fairbanks quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 8, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Mt. Hayes quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 10, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Bendeleben quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 3, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Big Delta quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 73, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Eagle quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 18, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Goodnews quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 15, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Hagemeister Island quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 16, scale 1:250,000.

- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Nabesna quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 13, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Nome quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 5, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northeastern part of the Gulkana quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 15, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northern part of Anchorage quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 21, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northern part of Solomon quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 6, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northwestern part of Norton Bay quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 7, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northwestern part of Nushagak Bay quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 17, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, southeastern part of Bethel quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 14, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, southeastern part of Teller quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 2, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, southwestern part of Selawik quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 1, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna Mountains quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 20, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 19, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Tanacross quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 11, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, western half of Candle quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 4, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1975, Aeromagnetic map, eastern two-thirds of Baird Mountains quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 77, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1975, Aeromagnetic map, northeastern part of Selawik quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 78, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1975, Aeromagnetic map, northwestern part of Shungnak quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 79, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1975, Aeromagnetic map, western two-thirds of Ambler River quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-file Report 76, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1983, Geothermal resources of Alaska: Fairbanks, Alaska Department of Natural Resources, Division of Geological and Geophysical Surveys, scale, 1:2,500,000.
- Alaska Geological Society, 1969, Southwest to northeast stratigraphic correlation section, Eureka to Rainbow, Copper River basin, Alaska: Anchorage Alaska, Alaska Geological Society, 1 sheet.
- Alaska Geological Society, 1969, Northwest to southeast stratigraphic correlation section, Drift River to Anchor River, Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet
- Alaska Geological Society, 1969, South to north stratigraphic correlation section, Anchor Point to Campbell Point, Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet.

- Alaska Geological Society, 1969c, South to north stratigraphic correlation section, Kalgin Island to Beluga River, Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet.
- Alaska Geological Society, 1969d, West to east stratigraphic correlation section, West Foreland to Swan Lake, Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet.
- Alaska Geological Society, 1970, West to east stratigraphic correlation section, Beluga River to Wasilla, Cook Inlet Basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet.
- Alaska Geological Society, 1970, South to north stratigraphic correlation section, Campbell Point to Rosetta, Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, vertical scale 1 inch = 500 feet.
- Alaska Geological Society, 1972, Northwest to southeast stratigraphic correlation section, Prudhoe Bay to Ignek Valley, Arctic North Slope, Alaska: Anchorage, Alaska Geological Society, 1 sheet, vertical scale 1 inch = 500 feet.
- Alaska Geological Society, 1975, Oil and gas fields in the Cook Inlet basin, Alaska: Anchorage, Alaska Geological Society, 84 p.
- Alaska Geological Society, Stratigraphic Committee, 1984-1985, Stratigraphic correlation section, Cape Douglas to Ninilchik: Anchorage, Alaska Geological Society, 1 pl.
- Alaska Mines and Geology, 1983, Shumagin Island gold mine shows promise of good returns, October, p. 13.
- Alaska Mines and Geology, 1985, Firm wants to develop new gold mine at old (Chichagoff Mine) site, April, p. 7-8.
- Alaska Oil and Gas Conservation Commission, 1984, Public hearing on Lisburne field rules, testimony by ARCO Alaska, Inc., November 29, 1984: Anchorage, Alaska Oil and Gas Conservation Commission, 187 p.
- Alaska Oil and Gas Conservation Commission, 1985, 1984 statistical report: Anchorage, Alaska Oil and Gas Conservation Commission, 187 p.
- Alaska Oil and Gas Conservation Commission, 1988, Alaska production summary by field and pool for 1987: Anchorage, Alaska Oil and Gas Convention Commission, 3 p.
- Albanese, M.D., 1980, The geology map of three extrusive bodies in the central Alaska Range: Fairbanks, University of Alaska, Master's thesis, 104 p.
- Albanese, M.D., 1983, Bedrock geologic map of the Livengood B–4 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–3, scale 1:40,000.
- Albanese, M.D., and Turner, D.L., 1980, ⁴⁰ K-⁴⁰Ar ages from rhyolite of Sugar Loaf Mountain, central Alaska Range; Implications for offset along the Hines Creek Strand of the Denali fault system: Fairbanks, Alaska State Division of Geological and Geophysical Surveys Short notes on Alaska Geology 1979–1980, p. 7–10.
- Albarede, F., and Michard, A., 1989, Hydrothermal alteration of the oceanic crust, *in* Hart, S. R., and Gulen, L., eds. Crust/mantle recycling at convergence zones: Dordrecht, Kluwer Academic, p. 29–36.
- Aleinikoff, J.N., 1984, Age and origin of metaigneous rocks from terranes north and south of the Denali fault, Mt. Hayes quadrangle, east-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 266.
- Aleinikoff, J.N., Dusel-Bacon, Cynthia, and Foster, H.L., 1981, Geochronologic studies in the Yukon-Tanana Upland, east-central Alaska, *in* Albert, N.R.D. and Hudson, Travis, eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. 34–37.
- Aleinikoff, J.N., Dusel-Bacon, Cynthia, Foster, H.L., and Futa, Kiyoto, 1981, Proterozoic zircon from augen gneiss, Yukon-Tanana Upland, east-central Alaska: Geology, v. 9, p. 469–473.
- Aleinikoff, J.N., Dusel-Bacon, C., and Foster, H.L., 1984, Uranium-lead isotopic ages of zircon from sillimanite gneiss and implications for Paleozoic metamorphism, Big Delta quadrangle, east-central Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 45–48.
- Aleinikoff, J.N., Dusel-Bacon, C., and Foster, H.L., 1986, Geochronology of augen gneiss and related rocks, Yukon-Tanana terrane, east-central Alaska: Geological Society of America Bulletin, v. 97, p. 626–637
- Aleinkoff, J.N., Dusel-Bacon, C., and Foster, H.L., 1987, Lead isotopic fingerprinting of tectono-stratigraphic terranes, east-central Alaska: Canadian Journal of Earth Sciences, v. 24, p. 2089–2098.
- Aleinikoff, J.N., Foster, H.L., Nokleberg, W.J., and Dusel-Bacon, Cynthia, 1984, Isotopic evidence from detrital zircons for early Proterozoic crustal material, east-central Alaska *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 43–45.

- Aleinikoff, J.N., and Nokleberg, W.J., 1984, Uranium-lead geochronology of a metarhyodacite from the Pingston terrane, Mount Hayes C-6 quadrangle, eastern Alaska range, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 73–75.
- Aleinikoff, J.N., and Nokleberg, W.J., 1984, Early Proterozoic metavolcanic rocks in the Jarvis Creek Glacier tectonostratigraphic terrane, Mount Hayes C-6 quadrangle, eastern Alaska Range, Alaska, *in* Reed, K.M., and Bartsch-Winkler, Susan, eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 40–44.
- Aleinikoff, J.N., and Nokleberg, W.J., 1985, Age of intrusion and metamorphism of a granodiorite in the Lake George terrane, northeastern Mount Hayes quadrangle, *in* Bartsch-Winkler, S., and Reed, K. M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 62–65.
- Aleinikoff, J.N., and Nokleberg, W.J., 1985, Age of Devonian igneous-arc terranes in the northern Mount Hayes quadrangle, eastern Alaska Range, Alaska, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 44–49.
- Aleinikoff, J.N., Nokleberg, W.J., and Herzon, P.L., 1982, Age of intrusion and metamorphism of the East Susitna Batholith, Mount Hayes B–6 quadrangle, eastern Alaska Range, Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 100–102.
- Aleinikoff, J.N., and Plafker, G., 1989, In search of the provenance and paleogeographic location of the White Mountains terrane: Evidence from U-Pb data of granite boulders in the Fossil Creek Volcanics, *in* Dover, J. H., and Galloway, J. P., eds., Geological studies in Alaska by the U.S. Geological Survey, 1988: U. S. Geological Survey Bulletin 1903, p. 68–74.
- Aleinikoff, J.N., Plafker, G., and Nokleberg, W.J., 1988, Middle Pennsylvanian plutonic rocks along the southern margin of the Wrangellia terrane, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey: accomplishments during 1987: U.S. Geological Survey Circular 1016, p.110–113.
- Aleksandrov, A.A., and 6 others, 1976, New data on the tectonics of the Koryak Highlands: Geotectonics, v. 9, p. 292–299.
- Allegre, C.J., Hart, S.R., and Minster, J.F., 1984, Chemical structure and evolution of the mantle and continents determined by inversion of Nd and Sr isotopic data, ll. Numerical experiments and discussion: Earth and Planetary Science Letters, v. 66, p. 191–213.
- Allegro, G.L., 1984, Geology of the Old Smokey Prospect, Livengood C-4 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigation R01 84–1, 10 p.
- Allen, E.T., and Zies, E.G., 1923, A chemical study of the fumaroles of the Katmai Region: National Geographic Society Contributions Technical Papers, Katmai series 2, p. 77–155.
- Amato, J.M., Wright, J.E., and Gans, P.B., 1992, The nature and age of Cretaceous magmatism and metamorphism on the Seward Peninsula, Alaska [abs.]: Geological Society of America Abstracts with Programs, v.24, p. 2.
- American Commission on Stratigraphic Nomenclature, 1970, Code of Stratigraphic Nomenclature, 2nd ed.: American Association of Petroleum Geologists, 45 p.
- American Geographical Society, 1975, Map of the arctic region: New York, Cartographic Division, scale 1:5,000,000.
- Anders, D.E., Magoon, L.B., and Lubeck, S.C., 1987, Geochemistry of surface oil shows and potential source rocks, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 18–198.
- Anderson, A.T., 1975, Some basaltic and andesites gases: Reviews of Geophysics and Space Physics, v. 13, p. 37–55
- Anderson, A.T., 1976, Magma mixing; Petrological process and volcanological tool: Journal of Volcanology and Geothermal Research, v. 1, p. 3–33.
- Anderson, A.V., 1989, Relationship between stratigraphy and structural geometry southwest of Bathtub Ridge, northeastern Brooks Range, preliminary results: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 89–1d, scale 1:25,000.
- Anderson, A.V., 1991, Geological map and cross sections, headwaters of the Kongakut and Aichilik Rivers, Demarcation Point A-4 and Table Mountain D-4 quadrangles, eastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Public Data File 91-3, 2 sheets, scale 1:25,000, 24 p.
- Anderson, A.V., and Wallace, W.K., 1990, Middle Devonian to Lower Mississippian clastic depositional cycles southwest of Bathtub Ridge, northeastern Brooks Range, Alaska [abs.]: Geological Association of Canada/Mineralogical Association of Canada Program with Abstracts, v. 15, p. A2.

- Anderson, A.V., Mull, C.G., and Crowder, R.K., 1993, Mississippian terrigenous clastic and volcaniclastic rocks of the Ellesmerian sequence, upper Sheenjek River area, eastern Brooks Range, Alaska, *in* Solie, D.N., and Tannian, F., eds., Short notes on Alaskan geology 1993: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 113, p. 1–6.
- Anderson, A.V, Wallace, W.K., and Mull, C.G., 1994, Depositional record of major tectonic transition in northern Alaska: Middle Devonian to Mississippian rift-basin margin deposits, upper Kongakut River region, eastern Brooks Range, Alaska, *in* Thurston, D., ed., Proceedings of the 1992 International Conference on Arctic Margins: Alaska Geological Society [in press].
- Anderson, D.M., and 6 others, 1973, An ERTS view of Alaska; Regional analysis of earth and water resources based on satellite imagery: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Technical Report 241, 50 p.
- Anderson, P.M., 1991, Palynological data as tools for interpreting past climates—Some examples from northern North America, *in* Weller, G., Wilson, C.L., and Severin, B.A.B., eds., International Conference on the Role of the Polar Regions in Global Change, University of Alaska at Fairbanks, June 1990: Fairbanks, University of Alaska, v. ll, p. 557–564.
- Anderson, R.L., 1973, The Denali Fault (Hines Creek Strand) in the Wood River area, central Alaska Range: Madison, Wisconsin, University of Wisconsin, Master's thesis, 114 p., 1 sheet, scale 1:63,360.
- Andreasen, G.E., 1960, Total intensity aeromagnetic profiles of the Cape Espenberg, Alaska: U.S. Geological Survey Open-File Report [60–5], scale 1:63,360.
- Andreasen, G.E., 1960, Total intensity aeromagnetic profiles of the Cape Lisburne area, Alaska: U.S. Geological Survey Open-File Report [60–6], scale 1:250,000.
- Andreasen, G.E., 1960, Total intensity aeromagnetic profiles of the Kobuk River, Alaska: U.S. Geological Survey Open-File Report [60–7], scale 1:250,000.
- Andreasen, G.E., Grantz, A., Zeitz, I., and Barnes, D.G., 1974, Geologic interpretation of magnetic and gravity data in the Copper River Basin, Alaska: U.S. Geological Survey Professional Paper 316–H, p. 135–153, scale 1:250,000.
- Andreason, G.E., Wahrhaftig, C., and Zietz, I., 1964, Aeromagnetic reconnaissance of the east-central Tanana lowland, Alaska: U.S. Geological Survey Geophysical Investigations Map GP447, scale 1:125,000.
- Andrews, J.A., 1985, True polar wander; An analysis of Cenozoic and Mesozoic paleomagnetic poles: Journal of Geophysical Research, v. 90, p. 7737–7750.
- Andrews, J.T., 1987, The Late Wisconsin glaciation and deglaciation of the Laurentide Ice Sheet, *in* Ruddiman, W.F., and Wright, H.E., Jr., eds., North America and adjacent oceans during the last deglaciation: Boulder, Colo., Geological Society of America, The Geology of North America, v. K-3, p. 13–37.
- Andrews, J.T., and Miller, G.H., 1984, Quaternary glacial and nonglacial correlations for the eastern Canadian Arctic, *in* Fulton, R. J., ed., Quaternary stratigraphy of Canada; A Canadian contribution to IGCP Project 24: Geological Survey of Canada Paper 84–10, p. 101–116.
- Angeloni, L.M., and Miller, M.L., 1985, Greenschist facies metamorphic rocks of north-central Iditarod quadrangle, *in* Bartsch-Winkler, S., ed., U.S. Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 19–21.
- Andrews, J.T., and 6 others, 1985, Land/ocean correlations during the late interglacial/glacial transition, Baffin Bay, northwestern North Atlantic; A review: Quaternary Science Reviews, v. 4, p. 333–355.
- Apted, M.J., 1981, Rare earth element systematics of hydrous liquids from partial melting of basaltic eclogites; A reevaluation: Earth and Planetary Science Letters, v. 52, p. 172–182.
- Aramaki, S., and Ui, T., 1983, Alkali mapping of the Japanese Quaternary volcanic rocks: Journal of Volcanology and Geothermal Research, v. 18, p 549–560.
- Arculus, R.J., DeLong, S.E., Kay, R.W., and Sun, S.S., 1977, The alkalic rock suite of Bogoslof Island, eastern Aleutian arc, Alaska: Journal of Geology, v. 85, p. 177–186.
- Arculus, R.J., Johnson, R.W., Chappell, B.W., McKee, C.O., and Sakai, H., 1983, Ophiolite-contaminated andesites, trachybasalts, and cognate inclusions of Mount Lamington, Papua New Guinea; Anhydrite-amphibole bearing lavas and the 1951 cumulodome: Journal of Volcanology and Geothermal Research, v. 18, p. 215–247.
- Arculus, R.J., and Powell, R., 1986, Source component mixing in the regions of arc magma generation: Journal of Geophysical Research: v. 19, p. 5913–5926.

- Armentrout, J.M., 1975, Molluscan biostratigraphy of the Lincoln Creek Formation, southwest Washington, *in* Weaver, D.W., Hornaday, G.R., and Tipton, A., eds., Paleogene symposium and selected technical papers on future energy horizons of the Pacific Coast: Long Beach, Calif., American Association of Petroleum Geologists, Society of Economic Paleontologists and Mineralogists, Society of Economic Geologists, Pacific Sections, p.14–48.
- Armentrout, J.M., 1983, Glacial lithofacies of the Neogene Yakataga Formation, Robinson Mountains, southern Alaska Coast Range, Alaska, *in* Molnia, B. F., ed., Glacial-marine sedimentation: New York, Plenum Press, p. 629–665.
- Armstrong, A.K., 1970, Carbonate facies and the lithostrotionoid corals of the Mississippian Kogruk Formation, De Long Mountains, northwestern Alaska: U.S. Geological Survey Professional Paper 664, 38 p.
- Armstrong, A.K., 1972, Pennsylvanian carbonates, paleoecology, and rugose colonial corals, north flank, eastern Brooks Range, Arctic Alaska: U.S. Geological Survey Professional Paper 747, 21 p.
- Armstrong, A.K., 1974, Carboniferous carbonate depositional models, preliminary lithofacies and paleotectonic maps, Arctic Alaska: American Association of Petroleum Geologists Bulletin, v. 58, p. 621–645.
- Armstrong, A.K., and Bird, K.J., 1976, Carboniferous environments of deposition and facies, Arctic Alaska, *in* Miller, T. P., ed., Symposium on recent and ancient sedimentary environments in Alaska: Anchorage, Alaska Geological Society Symposium Proceedings, p. A1–A16.
- Armstrong, A.K., Harris, A.G., Reed, B.L., and Carter, C., 1977, Paleozoic sedimentary rocks in the northwest part of the Talkeetna quadrangle, Alaska Range, Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B61–B62.
- Armstrong, A.K., and MacKevett, E.M., Jr., 1982, Stratigraphy and diagenetic history of the lower part of the Triassic Chitistone Limestone, Alaska: U.S. Geological Survey Professional Paper 1212–A, 26 p.
- Armstrong, A.K., and Mamet, B.L., 1977, Carboniferous microfacies, microfossils, and corals, Lisburne Group, Arctic Alaska: U.S. Geological Survey Professional Paper 849, 144 p.
- Armstrong, A.K., and Mamet, B.L., 1978, Microfacies of the Carboniferous Lisburne Group, Endicott Mountains, Arctic Alaska, *in* Stelck, C.R., and Chatterton, B.D.E., eds., Western and Arctic biostratigraphy: Geological Association of Canada Special Paper 18, p. 333–394.
- Armstrong, A.K., Mamet, B.L.,Brosgé, W.P., and Reiser, H.N., 1 976, Carboniferous section and unconformity at Mount Doonerak, Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 60, p. 962–972.
- Armstrong, A.K., Mamet, B.L., and Dutro, J.T., Jr., 1970, Foraminiferal zonation and carbonate facies of Carboniferous (Mississippian and Pennsylvanian) Lisburne Group, central and eastern Brooks Range, Arctic Alaska: American Association of Petroleum Geologists Bulletin, v. 54, p. 687–698.
- Armstrong, A.K., Mamet, B.L., and Dutro, J.T., Jr., 1971, Lisburne Group, Cape Lewis-Niak Creek, northwestern Alaska, Chapter B, *in* Geological Survey research, 1971: U.S. Geological Survey Professional Paper 750–,R, p. B23–B34.
- Armstrong, R.L., 1985, Rb/Sr dating of the Bokan Mountain granite complex and its country rocks: Canadian Journal of Earth Sciences, v. 22, no. 8, p. 1233–1236.
- Armstrong, R.L., 1988, Mesozoic and early Cenozoic magmatic evolution of the Canadian Cordillera, *in* Clark, S.P., Burchfiel, B.C., and Suppe, J., eds., Processes in continental lithospheric deformation: Geological Society America Special Paper 218, p. 55–91.1.
- Armstrong, R.L., Harkal, J.E., Forbes, R.B., Evans, B.W., and Thurston, S.P., 1986, Rb-Sr and K-Ar study of metamorphic rocks of the Seward Peninsula and southern Brooks Range, Alaska, *in* Evans, B.W., and Brown, E.H., eds., Blueschists and eclogites: Geological Society of America Memoir 164, p. 185–203.
- Armstrong, R.L., Harakal, J.E., and Hollister, V.F., 1976, Age determinations of late Cenozoic copper deposits of the North American Cordillera: Institute of Mining and Metallurgical Engineers Transactions, Section B. v. 85, p. 239–244.
- Armstrong, R.L., and Runkle, D., 1979, Rb-Sr geochronometry of the Ecstall, Kitkiata, and Quottoon plutons and their country rocks, Prince Rupert region, Coast Plutonic complex, British Columbia: Canadian Journal of Earth Sciences,v. 16, p. 387–399.
- Arth, J.G., 1976, Behavior of trace elements during magmatic processes; A summary of theoretical models and their applications: U.S. Geological Survey Journal of Research, v. 4, p. 41–47.
- Arth, J.G., 1985, Neodymium and strontium isotopic composition of Cretaceous plutons of the Yukon-Koyukuk basin, Ruby geanticline, and Seward Peninsula, Alaska [abs.]: EOS (Transactions of the American Geophysical Union), v. 66, p. 1102.
- Arth, J.G., 1987, Regional isotopic variations in the Cretaceous plutons of northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 355.

- Arth, J.G., and 5 others, 1984, Crustal composition beneath the Yukon-Koyukuk basin and Ruby geanticline as reflected in the isotopic composition of Cretaceous plutons [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 267.
- Arth, J.G., and 5 others, 1989, Isotopic and trace-element variations in the Ruby batholith, Alaska, and the nature of the deep crust beneath the Ruby and Angayucham terranes: Journal of Geophysical Research, v. 94, p. 15941–15956.
- Arth, J.G., and 5 others, 1989, Remarkable isotopic and trace element trends in Cretaceous plutons of the Yukon-Koyukuk Basin, Alaska, and the nature of crustal lithosphere beneath the Koyukuk terrane: Journal of Geophysical Research, v. 94, p. 15957–15968.
- Arth, J.G., Barker, F. Peterman, Z.E., and Friedman, I., 1978, Geochemistry of the gabbro-diorite-tonalite-trondhjemite suite of southwest Finland and its implications for the origin of tonalitic and trondhjemitic magmas: Journal of Petrology, v. 19, p. 289–316.
- Arth, J.G., Barker, F., and Stern, T.W., 1988, The Coast batholith near Ketchikan, Alaska; Petrography, geochronology, geochemistry, and isotopic character: American Journal of Science, v. 288A, p. 461–489.
- Arth, J.G., Barker, F., Stern, T.W., and Zmuda, C., 1986, The Coast batholith near Ketchikan, southeast Alaska; Geochronology and geochemistry [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 529.
- Arth, J.G., Zmuda, C.C., Foley, N.K., Criss, R.E., Patton, W.W., Jr., and Miller, T.P., 1989, Isotopic and trace element variations in the Ruby batholith, Alaska, and the nature of the deep crust beneath the Ruby and Angayucham terranes: Journal of Geophysical Research, v. 94, no. Bll, p. 15,941–15,955.
- Askren, D.R., 1972, Holocene stratigraphic framework southeastern Bering Sea continental shelf: Seattle, University of Washington, Master's thesis.
- Atkinson, G.D., Trumbly, P.N., and Kremer, M.C., 1988, Sedimentology and depositional environments of the Ivishak Sandstone, Prudhoe Bay field, North Slope, Alaska, *in* Lomando, A.J., and Harris, P.M., eds., Giant oil and gas fields, a core workshop: Tulsa, Oklahoma, Society of Economic Paleontologists and Mineralogists Core Workshop no. 12, p. 561–613.
- Atwater, T., and Molnar, P., 1973, Relative motion of the Pacific and North American plates deduced from sea-floor spreading in the Atlantic, Indian, and South Pacific Oceans, *in* Proceedings of the Conference on Tectonic Problems of the San Andreas Fault System, Stanford University, Calif.: Stanford, Calif., Stanford University Publications in the Geological Sciences, v. 13, p. 136–148.
- Atwater, T., and Severinghaus, J., 1989, Tectonic maps of the northeast Pacific, *in* Winterer, E.L., Hussong, D.M., and Decker, R.W., eds., The eastern Pacific Ocean and Hawaii: Boulder, Colo., The Geology of North America, v. N, p. 15–20.
- Atwood, W.W., 1911, Geology and mineral resources of parts of the Alaska Peninsula: U.S. Geological Survey Bulletin 467, 137 p., 15 plates.
- Ave Lallemant, H.G., and Oldow, J.S., 1988, Early Mesozoic southward migration of Cordilleran transpressional terranes: Tectonics, v. 7, p. 1057–1075.
- Aydin, A., and Nur, A., 1982, Evolution of pull-apart basins and their scale dependence: Tectonics, v. 1, no. 1, p. 71–105.
- Babcock, L.E., and Blodgett, R.B., 1992, Biogeographic and paleogeographic significance of Middle Cambrian trilobites of Siberian aspect from southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 24, no. 5, p. 4.
- Babcock, L.E., Blodgett, R.B., and St. John, J., 1993, Proterozoic and Cambrian stratigraphy and paleontology of the Nixon Fork terrane, southwestern Alaska: Proceedings of the First Circum-Pacific and Circum-Atlantic terrane conference, 5-22 November, 1993, Guanajuato, Mexico, p. 5–7.
- Bacon, C.R. Foster, H.L., and Smith, J.G., 1985, Cretaceous calderas and rhyolitic welded tuffs in the Yukon-Tanana terrane, east-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 339.
- Bacon, C.R., Foster, H.L., and Smith, J.G., 1990, Rhyolitic calderas of the Yukon-Tanana terrane, east central Alaska: Volcanic remnants of a mid-Cretaceous magmatic arc: Journal of Geophysical Research, v. 95, p. 21,451–21,461
- Bader, J.W., and Bird, K.J., 1986, Geologic map of the Demarcation Point, Mt. Michelson, Flaxman Island, and Barter Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1791, 1 sheet, scale 1:250,000.
- Bailey, K.A., Cooper, A.K., Marlow, M.S., and Scholl, D.W., 1976, Preliminary residual magnetic map of the eastern Bering shelf and parts of western Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–716, scale 1:2,500,000.

- Baker, D.R., 1987, Depths and water content of magma chambers in the Aleutian and Mariana island arcs: Geology, v. 15, p. 496–499.
- Baker, D.R. and Eggler, D.H., 1983, Fractionation paths of Atka (Aleutian) high-alumina basalts; Constraints from phase relations: Journal of Volcanology and Geothermal Research, v. 18, p. 387–404.
- Baker, D.R. and Eggler, D.H., 1987, Compositions of anhydrous and hydrous melts coexisting with plagioclase, augite, and olivine or low-Ca pyroxene from 1 atm to 8 kbar; Application to the Aleutian volcanic center of Atka: American Mineralogist, v.72, p.12–28.
- Balkwill, H.R., and Fox, F.G., 1982, Incipient rift zone, western Sverdrup Basin, Arctic Canada, *in* Embry, A.F., and Balkwill, H.R., eds., Arctic geology and geophysics: Calgary, Canadian Society of Petroleum Geologists Memoir 8, p. 171–187.
- Bally, A.W., Gordy, P. and Stewart, G.A., 1966, Structure, seismic data, and orogenic evolution of southern Canadian Rocky Mountains: Bulletin of Canadian Petroleum Geology, v. 14, no. 3, p. 337–381.
- Bamber, E.W., and Waterhouse, J.B., 1971, Carboniferous and Permian stratigraphy and paleontology, northern Yukon territory, Canada: Bulletin of Canadian Petroleum Geology, v. 19, no. 1, p. 29–250.
- Baranov, I., 1959, Geograficheskoe rasprostranenie sezonnopromerzayushchikh pochv i mnogoletnemerzlykh gornykh porod (Geographical distribution of seasonally frozen ground and permafrost), *in* Osnovy geokriologii (General geocryology): Moscow, Akademiya Nauk SSSR, pt.1, chap. 7, p. 193–218. (Translation by A. Nurklik, 1964, National Research Council of Canada Technical Translation TT–1121, 85 p.)
- Barazangi, Muawia, and Dorman, James, 1970, Seismicity map of the Arctic compiled from ESSA, Coast and Geodetic Survey, epicenter data January 1961 through September 1969: Bulletin of the Seismologic Society of America, v. 60, no. 5, p. 1741–1743.
- Barazangi, S.M. and Isacks, S.L., 1976, Spatial distribution of earthquakes and subduction of the Nazca Plate beneath South America: Geology, v. 4, p. 686–692.
- Bard, Eduord, Hamelin, Bruno, and Fairbanks, R.G., 1990, U-Th ages obtained by mass spectrometry in corals from Barbados: sea level during the past 130,000 years: Nature, v. 346, p. 456–458.
- Barker, F., 1957, Geology of the Juneau B-3 quadrangle, Alaska: U.S. Geological Survey Geologic quadrangle Map GQ–I00, 1 sheet, scale 1:63,360.
- Barker, F., 1963, The Funter bay nickel-copper deposit, Admiralty Island, Alaska: U.S. Geological Survey Bulletin 1155, p. 1–10.
- Barker, F., 1987, Cretaceous Chisana Island arc of Wrangellia, eastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 580.
- Barker, F., 1994, Some accreted volcanic rocks of Alaska and their elemental abundances, *in* Plafker, G. and Berg, H.C., eds., The geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G1, p 555–587
- Barker, F., and Arth, J.G., 1984, Preliminary results, Central Gneiss Complex of the Coast Range batholith, southeastern Alaska; The roots of a high-K calc-alkaline arc?: Physics of the Earth and Planetary Interiors, v. 35,p. 191–198.
- Barker, F., and Arth, J.G., 1990, Two traverses across the Coast batholith, southeastern Alaska, *in* Anderson, J. L., ed., The nature and origin of Cordilleran magmatism: Geological Society of America Memoir 174, p.395–405.
- Barker, F., and Grantz, A., 1982, Talkeetna Formation in the southeastern Talkeetna Mountains, southern Alaska: An Early Jurassic andesitic island arc [abs.]: Geological Society of America Abstracts with Programs, v. 14, p. 147.
- Barker, F., and Stern, T.W., 1986, An arc-root complex of Wrangellia, east Alaska Range [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 534.
- Barker, F., Arth, J.G., and Stern, T.W., 1986, Evolution of the Coast batholith along the Skagway traverse, Alaska and British Columbia: American Mineralogist, v. 71, p. 632–643.
- Barker, F., Farmer, G.L., Ayuso, R.A., Plafker, G., and Lull, J.S., 1992, The 50-MA granodiorite of the eastern Gulf of Alaska: Melting in an accretionary prism in the forearc: Journal of Geophysical Research, v. 97, no. B5, p. 6757–6778.
- Barker, F., Jones, D.L., Budahn, J.R., and Coney, P.J., 1988, Ocean plateau seamount origin of basaltic rocks, Angayucham terrane, central Alaska: Journal of Geology, v. 96, p. 368–374.
- Barker, F., McLellan, E.L., and Plafker, G., 1985, Partial melting of amphibolite to trondhjemite at Nunatak fiord, St. Elias Mountains, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 518–519.

- Barker, F., Sutherland Brown, A., Budahn, J.R., and Plafker, G., 1989, Back–arc with frontal arc component origin of Triassic Karmutsen basalt, British Columbia, Canada: Chemical Geology, v. 75, p. 81–102.
- Barker, J.C., 1978, Mineral deposits of the Yukon-Tanana Uplands; A summary report: U.S. Bureau of Mines Open-File Report 88–78, 33 p.
- Barker, J.C, 1982, Reconnaissance of rare-metal occurrences associated with the Old Crow batholith, eastern Alaska-northwestern Canada: Short notes on Alaska Geology—1981: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 73, p. 43–49.
- Barker, J.C., 1986, Placer gold deposits of the Eagle trough, upper Yukon River region, Alaska: Bureau of Mines Information Circular 9123, 20 p.
- Barker, J.C., and Clautice, K. H., 1977, Anomalous uranium concentrations in artesian springs and stream sediments in the Mount Prindle area, Alaska: U.S. Bureau of Mines Open-File Report 130–77, 18 p.
- Barker, J.C., and Swainbank, R. C., 1986, A tungsten-rich porphyry molybdenum occurrence at Bear Mountain, northeast Alaska: Economic Geology, v. 81, p. 1753–1759.
- Barnes, D.A., 1987, Reservoir quality in the Sag River Formation, Prudhoe Bay field, Alaska: Depositional environment and diagenesis, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50, vols. 1 and 2, p. 85–94.
- Barnes, D.F., 1961, Gravity low at Minto Flats, Alaska: U.S. Geological Survey Professional Paper 424-D, p. 254-257.
- Barnes, D.F., 1966, Gravity changes during the Alaska earthquake: Journal of Geophysical Research, v. 71, no. 2, p. 451–456.
- Barnes, D.F., 1966, Geophysical methods for delineating permafrost, *in* Proceedings, Permafrost, International Conference, Lafayette, Indiana, November 11-15, 1963: Washington, D.C., National Academy of Sciences, p. 159–164.
- Barnes, D.F., 1968, Alaskan gravity base station network: U.S. Geological Survey Open-File Report [68–4], 21 p.
- Barnes, D.F., 1969, Lack of isostatic adjustment on two Alaska continental margins [abs.]: Geological Society of America Abstracts with Programs for 1969, pt. 7, p. 254–256.
- Barnes, D.F., 1970, Gravity and other regional geophysical data from northern Alaska, *in* Adkison, W.L., and Brosgé, M.M., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, American Association of Petroleum Geologists, p. 11–119.
- Barnes, D.F., 1972, Notes on the processing and presentation of U.S. Geological Survey Alaska gravity data: U.S. Geological Survey Open-File Report [72–16], 25 p.
- Barnes, D.F., 1972, Southeast Alaska gravity base station networks: U.S. Geological Survey Open-File Report [72–18], 40 p.
- Barnes, D.F., 1977, Bouguer gravity map of Alaska: U.S. Geological Survey Geophysical Investigations Map GP–913, 1 sheet, scale 1:2,500,000.
- Barnes, D.F., 1984, Digital elevation models improve processing of Alaskan gravity data, *in* Coonrad, W.L., and Elliott, R.L., eds., U.S. Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 5–7.
- Barnes, D.F., 1984, Interpretation of available gravity data, *in* U.S. Geological Survey and U.S. Bureau of Mines, Mineral resources of the Tracy Arm-Fords Terror Wilderness Study Area and vicinity, Alaska: U.S. Geological Survey Bulletin 1525, p. 63–72.
- Barnes, D.F., 1986, Gravity data indicate large mass and depth of the gabbro body at Haines, *in* Bartsch-Winkler, Susan, and Reed, K.M., eds., U.S. Geological Survey in Alaska: accomplishments during 1985: U.S. Geological Survey Circular 978, 88–92.
- Barnes, D.F., 1987, Gravity anomaly at a Pleistocene lake bed in NW Alaska interpreted by analogy with Greenland's Lake Taserssuaq and its floating ice tongue: Journal of Geophysical Research, v. 92, no. B9, p. 8976–8984.
- Barnes, D.F., Brew, D.A., and Morin, R.L., 1989, Bouguer gravity map of the Petersburg quadrangle and parts of the Port Alexander, Sitka, and Sumdum quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1970-A, 1 sheet, scale 1:250,000.
- Barnes, D.F., and Hudson, T., 1977, Bouguer gravity map of Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–769C, scale 1:1,000,000.

- Barnes, D.F., and Morin, R.L., 1988, Results of gravity survey of McCarthy's Marsh, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 88–546, 2 plates, 9 p.
- Barnes, D.F., and Morin, R.L., 1975, Gravity map of the Nabesna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-6551, 1 sheet, scale 1:250,000.
- Barnes, D.F., and Morin, R.L., 1990, Gravity contour map and interpretation of gravity data for the Chugach National Forest, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1645-F, 1 sheet, scale 1:250,000, 6 p.
- Barnes, D.F., Morin, R.L., and Watts, R.D., 1978, Interpretation of gravity and ice thickness data, *in* Brew, D.A., Johnson, B.R., Grybeck, Donald, Griscom, Andrew, Barnes, D.F., Kimball, A.L., Still, J.C., and Rataj, J.L., Mineral Resources of the Glacier Bay National Monument Wilderness Study Area, Alaska: U.S. Geological Survey Open-File Report 78–494, p. B–51–B–75.
- Barnes, D.F., and Tailleur, I.L., 1970, Preliminary interpretation of geophysical data from the lower Noatak River basin, Alaska: U.S. Geological Survey Open-File Report 412, 24 p., scale 1:250,000,
- Barnes, F.F., 1951, A review of the geology and coal resources of the Bering River coal field, Alaska: U.S. Geological Survey Circular 146, 11 p.
- Barnes, F.F., 1962, Variation in rank of Tertiary coals in the Cook Inlet basin, Alaska: U.S. Geological Survey Professional Paper 450–C, p. C14–C16.
- Barnes, F.F., 1966, Geology and coal resources of the Beluga-Yentna region, Alaska: U.S. Geological Survey Bulletin 1202–C, p. Cl–C34, plates 1–7.
- Barnes, F.F., 1967, Coal resources of Alaska: U.S. Geological Survey Bulletin 1242-B, p. Bl-B36, plate 1.
- Barnes, F.F., 1967, Coal resources of the Cape Lisburne-Colville River region, Alaska: U.S. Geological Survey Bulletin 1242–E, p. El–E37.
- Barnes, F.F., 1967, Coal resources of Alaska, *in* Contributions to economic geology: U.S. Geological Survey Bulletin 1242–B, p. Bl–B85.
- Barnes, F.F., 1967, Coal resources of Alaska: U.S. Geological Survey Bulletin 1242-B, p. B28-B29.
- Barnes, F.F., and Cobb, E.H., 1959, Geology and coal resources of the Homer district, Kenai coal field, Alaska: U.S. Geological Survey Bulletin 1058F, p. F217–F260.
- Barnes, F.F., and Payne, T.G., 1956, The Wishbone Hill District, Matanuska coal field, Alaska: U.S. Geological Survey Bulletin 1016, 88 p., 20 plates.
- Barnes, F.F., and Sokol, D., 1959, Geology and coal resources of the Little Susitna District, Matanuska coal field, Alaska: U.S. Geological Survey Bulletin 1058–D, plates 7–11, p. 121–138.
- Barraclough, D.R., and Fabiano, E.B., 1978, Grid values and charts for the International Geomagnetic Reference Field: U.S. Department of Commerce, National Technical Information Service PB 276 630, 139 p.
- Barrie, J.V., and Bornhold, B.D., 1989, Surficial geology of Hecate Strait, British Columbia continental shelf: Canadian Journal of Earth Sciences, v. 26, p. 1241–1254.
- Barron, J.A., 1986, Paleoceanographic and tectonic controls of deposition of the Monterey Formation and related siliceous rocks in California: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 53, p. 27–45.
- Bartlein, P.J., Anderson, P.M., Edwards, M.E., and McDowell, P.F., 1991, A framework for interpreting paleoclimatic vanations in eastern Beringia: Quaternary International, v. 10–12, p. 73–83.
- Bartsch-Winkler, S., 1979, Textural and mineralogical study of some surface and subsurface sandstones from the Nanushuk Group, western North Slope, Alaska, *in* Ahlbrandt, T.S., ed., Preliminary geologic, petrologic, and paleontologic results of the study of Nanushuk Group rocks, North Slope, Alaska: U.S. Geological Survey Circular 794, p. 61–76.
- Bartsch-Winkler, Susan, and Schmoll, H.R., 1987, Earthquake-caused sedimentary couplets in the Upper Cook Inlet region, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 92–95.
- Bassett, H.G., and Stout, J.G., 1967, Devonian of western Canada, *in* Oswald, D.H., ed., International Symposium on the Devonian System, Calgary, Proceedings: Alberta Society Petroleum Geologists, v. 1, p. 717–752.
- Bateman, A.M., and McLaughlin, D.H., 1920, Geology of the ore deposits of this deposit type consists of Kennicott, Alaska: Economic Geology, v. 15, p. 1–80.
- Bates, R.L., and Jackson, J.A., 1987, Glossary of Geology: Alexandria, Va., American Geological Institute, 3rd edition, 788 p.

- Bath, G.D., Carr, W.J., Gard, L.M., Jr., and Quinlivan, W.D., 1972, Interpretation of an aeromagnetic survey of the Amchitka Island area, Alaska: U.S. Geological Survey Professional Paper 707, scale 1:100,000.
- Batiza, R., and Vanko, D., 1984, Petrology of young Pacific seamounts: Journal of Geophysical Research, v. 89, no. B13, p. 11235–11260.
- Bayer, K.C., Mattick, R.E., Plafker, G., and Bruns, T.R., 1978, Refraction studies between Icy Bay and Kayak Island, eastern Gulf of Alaska: U.S. Geological Survey Journal of Research, v. 6, p. 625–616
- Beard, J.S., and Barker, F., 1989, Petrology and tectonic significance of gabbros, tonalites, shoshonites, and anorthosites in a late Paleozoic arc-root complex in the Wrangellia terrane, southern Alaska: Journal of Geology, v. 97, no. 6, p. 667–683.
- Beaudoin, B.C., Fuis, G.S., Mooney, W.D., Nokleberg, W.J., and Christensen, N.I., 1992, Thin, low-velocity crust beneath the southern Yukon-Tanana terrane east-central Alaska: Results from Trans-Alaska Crustal Transect refraction/wide-angle reflection data: Journal of Geophysical Research, v. 97, no. B2, p. 1921–1942.
- Beck, M.E., Burmester, R.F., and Shoonover, R., 1981, Paleomagnetism and tectonics of Cretaceous Mt. Stuart batholith of Washington: Translation or tilt?: Earth and Planetary Science Letters, v. 56, p. 336–342.
- Becker, G.F., 1898, Reconnaissance of the gold fields of southern Alaska, with some notes on general geology: U.S. Geological Survey 18th Annual Report, v.3., p. 1–86.
- Bee, M., Johnson, S.H., and Chiburis, E.F., 1984, Marine seismic refraction study between Cape Simpson and Prudhoe Bay, Alaska: Journal of Geophysical Research, v. 89, no. B8, p. 6941–6960.
- Beechey, F.W.,1831, Narrative of a voyage to the Pacific and Beering's [Bering] Strait: London, Henry Colburn and Richard Bently, v. 1 in 2 parts, pt. 1, p. 1 392, pt. 2, p. 393–742.
- Begét, J.E., and Hawkins, D.B., 1989, Influence of orbital parameters on Pleistocene loess deposition in central Alaska: Nature, v. 337, p. 151–153.
- Begét, J.E., Edwards, M., Hopkins, D.M., Keskinen, M.J., and Kukla, G., 1991, Old Crow tephra found at the Palisades of the Yukon, Alaska: Quaternary Research, v. 35, p. 291–297.
- Begét, J.E., Stone, D.B., and Hawkins, D.B., 1990, Paleoclimatic forcing of magnetic susceptibility variations in Alaskan loess during the late Quaternary: Geology, v. 18, p. 40–43.
- Begét, J., Crumley, S., and Stone, D., 1991, The record of the last glacial cycle in Alaskan loess, *in* Program and Abstracts, 21st Arctic Workshop, University of Alaska, May 1991: Fairbanks, Alaska Quaternary Center, p. 51.
- Beikman, H.M., 1974, Preliminary geologic map of the southwest quadrant of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-611, 2 sheets, scale 1:1,000,000.
- Beikman, H.M., 1975, Preliminary geologic map of southeastern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–673, scale 1:1,000,000.
- Beikman, H.M., 1975, Preliminary geologic map of the Alaska Peninsula and Aleutian Islands: U.S. Geological Survey Miscellaneous Field Studies Map MF–674, scale 1:1,000,000.
- Beikman, H.M., 1980, Geologic map of Alaska: U.S. Geological Survey, 2 sheets, scale 1:2,500,000.
- Beikman, H.M., and Lathram, E.H., 1976, Preliminary geologic map of northern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–789, 2 sheets, scale 1:1,000,000.
- Ben Othman, D., Fourcade, S., and Allegre, C.J., 1984, Recycling processes in granite-granodiorite complex genesis; The Querigut case studied by Nd-Sr isotope systematics: Earth and Planetary Science Letters, v. 69, p. 290–300.
- Benioff, H., 1954, Orogenesis and deep crustal structure—Additional evidence from seismology: Geological Society of America Bulletin, v. 65, p.385–400.
- Benninghoff, W.S., 1952, Interaction of vegetation and soil frost phenomena: Arctic, v. 5, no. 1, p. 34-44.
- Benson, C.S., and Motyka, R.J., 1978, Glacier-volcano interactions on Mt. Wranzell, Alaska, *in* 1977-1978 Annual report of the Geophysical Institute: Fairbanks, University of Alaska, p. 1–25.
- Berg, H.C., 1970, Paleozoic plutonism and contrasting metamorphic terranes, Annette Island, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 2, no. 2, p. 70.
- Berg, H.C., 1972, Geologic map of Annette Island, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–684, 1 sheet, scale 1:63,360.
- Berg, H.C., 1973, Geology of Gravina Island, Alaska: U.S. Geological Survey Bulletin 1373, 41 p.

- Berg, H.C., 1984, Regional geologic summary, metallogenesis, and mineral resources of southeastern Alaska: U.S. Geological Survey Open-File Report 84–572, 1 sheet, scale 1:600,000, 298 p.
- Berg, H.C., and Cobb, E.H., 1967, Metalliferous lode deposits of Alaska: U.S. Geological Survey Bulletin 1256, 254 p.
- Berg, H.C., and Jones, D.L., 1974, Ophiolite in southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 6, p. 144.
- Berg, H.C., Decker, J.E., and Abramson, B.S., 1981, Metallic mineral deposits of southeastern Alaska: U.S. Geological Survey Open-File Report 81–122, 1 sheet, scale 1:1,000,000, 136 p.
- Berg, H.C., Elliott, R.L., and Koch, R.D., 1988, Geologic map of the Ketchikan and Prince Rupert quadrangles, southeastern Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–1807, 1 sheet, scale 1:250,000, 27 p.
- Berg, H.C., Elliott, R.L., Koch, R.D., Carten, R.B., and Wahl, F.A., 1976, Preliminary geologic map of the Craig D-l and parts of the Craig C-l and D-2 quadrangles, Alaska: U.S. Geological Survey Open-File Report 76–430, 1 sheet, scale 1:63,360.
- Berg, H.C., Jones, D.L., and Coney, P.J., 1978, Map showing pre-Cenozoic tectonostratigraphic terranes of southeastern Alaska and adjacent areas: U.S. Geological Survey Open-File Report 78–1085, 2 sheets, scale 1:1,000,000.
- Berg, H.C., Jones, D.L., and Richter, D.H., 1972, Gravina-Nutzotin belt—Tectonic significance of an upper Mesozoic sedimentary and volcanic sequence in southern and southeastern Alaska, *in* Geological Survey research 1972: U.S. Geological Survey Profession Paper 800–D, p. D1–D24.
- Berg, H.C., Jones, D.L., and Coney, P.J., 1978, Pre-Cenozoic tectonostratigraphic terranes of southeastern Alaska and adjacent areas: U. S. Geological Survey Open-File Report 78–1085, 2 sheets, scale 1:1,000,000.
- Berg, H.C., Elliott, R.L., and Koch, R.D. 1988, Geologic map of the Ketchikan and Prince Rupert quadrangles, southeastern Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1807, 27 p., scale 1:250,000.
- Berg, H.C., Elliott, R.L., and Koch, R.D., 1978, Map and table describing metalliferous and selected nonmetalliferous mineral deposits, Ketchikan and Prince Rupert quadrangles, Alaska: U.S. Geological Survey Open-File Report 78–73–B, 17 p., scale 1:250,000.
- Berg, H.C., Elliott, R.L., Smith, J.G., and Koch, R.D., 1978, Geologic map of the Ketchikan and Prince Rupert quadrangles, Alaska: U.S. Geological Survey Open-File Report 78–73–A, scale 1:250,000.
- Berg, H.C., Elliott, R.L., Smith, J.G., Pittman, T.L., and Kimball, A.L., 1977, Mineral resources of the Granite Fiords Wilderness Study Area, Alaska, with a section on Aeromagnetic data by Andrew Griscom: U.S. Geological Survey Bulletin 1403, scale 1:125,000.
- Berger, G.W., Pillans, B.J., and Palmer, A.S., 1992, Dating loess up to 800 ka by thermoluminescence: Geology, v. 20, p. 403–406.
- Bergman, S.C., 1987, Lamproites and other potassium-rich igneous rocks; A review of their occurrence, mineralogy, and geochemistry, *in* Fitton, J.G. and Upton, B.G., eds., Alkaline igneous rocks: Oxford, Blackwell Scientific Publications, p 103–190.
- Bergman, S.C., and Doherty, D.J., 1986, Nature and origin of 50-75 Ma volcanism and plutonism in W. and S. Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 18, p 539.
- Bergman, S.C., Hudson, T.L., and Doherty, D.J., 1987, Magmatic rock evidence for a Paleocene change in tectonic setting of Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 586.
- Bernstein, L.R., and Cox, D.P., 1986, Geology and sulfide mineralogy of the Number One orebody, Ruby Creek copper deposit, Alaska: Economic Geology, v. 81, p. 1675–1689.
- Berry, A.L., Dalrymple, G.B., Lanphere, M.A., and Von Essen, J.C., 1976, Summary of miscellaneous potassium-argon age measurements, U.S. Geological Survey, Menlo Park, Calif., for the years 1972-74: U.S. Geological Survey Circular 727, 13 p.
- Bevier, M.L., and Wheller, K.R., 1983, Isotopic composition of lead and strontium in a suite of rocks from Redoubt volcano, Alaska [abs.]: Geological Society of America Abstracts with Program, v. 15, p. 333.
- Beyer, B.J., 1980, Petrology and geochemistry of ophiolite fragments in a tectonic melange, Kodiak Islands, Alaska: Santa Cruz, University of California, Ph.D. dissertation, 227 p.
- Biggar, N.E., 1974, A geological and geophysical study of Chena Hot Springs, Alaska: Fairbanks, University of Alaska, Master's thesis, 72 p.

- Bingham, D.K., and Stone, D.B., 1972, Palaeosecular variation of the geomagnetic field in the Aleutian Islands, Alaska: Royal Astronomical Society Geophysical Journal, v. 28, no. 4, p. 317–335.
- Bingler, E.C., Trexler, D.T., Kemp, W.R., and Bonham, H.P., Jr., 1976, PETCAL; A Basic language computer program for petrologic calculations: Nevada Bureau of Mines and Geology Report 28, 27 p.
- Bird, J.M., Wirth, K.R., Harding, D.J., and Shelton, D.H., 1985, Brooks Range ophiolites reconstructed: Eos (American Geophysical Union Transactions), v.46, p. 1129.
- Bird, K.J., 1978, New information on the Lisburne Group (Carboniferous and Permian) in the National Petroleum Reserve in Alaska (NPRA) [abs.]: American Association of Petroleum Geologists Bulletin, v. 62, no. 5, p. 880.
- Bird, K.J., 1981, Petroleum exploration of the North Slope, *in* Mason, J.F., ed., Petroleum geology in China; Principal lectures presented to the United Nations: Tulsa, Oklahoma, PennWell Publishing Co., p. 233–248.
- Bird, K.J., 1981, Petroleum exploration of the North Slope in Alaska, U.S.A.: U.S. Geological Survey Open-File Report 81–227.
- Bird, K.J., 1982, Rock-unit reports of 228 wells drilled on the North Slope, Alaska: U.S. Geological Survey Open-File Report 82–278, 106 p.
- Bird, K.J., 1985, The framework geology of the North Slope of Alaska as related to oil-source rock correlations, *in* Magoon, L.B., and Claypool, G.E., eds., Alaskan North Slope oil/rock correlation study: American Association of Petroleum Geologists Studies in Geology no. 20, p. 3–29.
- Bird, K.J., 1986, A comparison of the play-analysis technique as applied in hydrocarbon resource assessments of the National Petroleum Reserve in Alaska and the Arctic National Wildlife Refuge, *in* Rice, D.D., ed., Oil and gas assessment; Methods and applications: American Association of Petroleum Geologists Studies in Geology 21, p. 133–142.
- Bird, K.J., 1986, The framework geology of the North Slope of Alaska as related to oil-source rock correlations, *in* Magoon, L.B., and Claypool, G.E., eds., Alaska North Slope oil/rock correlation study: American Association of Petroleum Geologists Studies in Geology 20, p. 3–29.
- Bird, K.J., 1987, The framework geology of the North Slope of Alaska as related to oil-source rock correlations, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50, vols. 1 and 2, p. 121–143.
- Bird, K.J., 1988, Alaskan North Slope stratigraphic nomenclature and data summary for government-drilled wells, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 317–353.
- Bird, K.J., 1988, Structure-contour and isopach maps of the National Petroleum Reserve in Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 355–380.
- Bird, K.J., 1991, North Slope of Alaska, *in* Gluskoter, H.J., Rice, D.D., and Taylor, R.B., eds., Economic Geology: U.S.: Boulder, Colo., Geological Society of America, The Geology of North America, v. P–2, p. 447–462
- Bird, K.J., and Andrews, J., 1979, Subsurface studies of the Nanushuk Group, North Slope, Alaska, *in* Ahlbrandt, T. S., ed., Preliminary geologic, petrologic, and paleontologic results of the study of Nanushuk Group rocks, North Slope, Alaska: U.S. Geological Survey Circular 794, p. 32–41.
- Bird, K.J., and Jordan, C.F., 1977, Lisburne Group (Mississippian and Pennsylvanian), potential major hydrocarbon objective of Arctic Slope, Alaska: American Association of Petroleum Geologists Bulletin, v 61, p 1493–1512.
- Bird, K.J., and Magoon, L.B., eds., 1987, Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, 5 plates, 329 p.
- Bird, K.J., and Molenaar, C.M., 1987, Stratigraphy, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 37–59.
- Bird, K.J., Connor, C.L., Tailleur, I.L., Silberman, M.L., and Christie, J.L., 1978, Granite on the Barrow Arch, northeast NPRA, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B24–B25.
- Bird, K.J., Griscom, S.B., Bartsch-Winkler, S., and Giovannetti, D.M., 1987, Petroleum reservoir rocks, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, north eastern Alaska: U.S. Geological Survey Bulletin 1778, p. 79–99.
- Bird, M.L., and Clark, A.L., 1976, Microprobe study of olivine chromites of the Goodnews Bay ultramafic complex, Alaska, and the occurrence of platinum: U.S. Geological Survey Journal of Research, v. 4, p. 717–725.

- Bischof, J.F., Clark, D.L., and Darby, D.A., 1992, Dropstone cycles in the western Arctic Ocean and their importance for continental glaciation in the North America Arctic region [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. 245.
- Bischoff, J.L., Rosenbauer, R.J., Tavoso, A., and de Lumley, H., 1988, A test of uranium-series dating of fossil tooth enamel; Results from Tournal Cave, France: Applied Geochemistry, v. 3, p 145–151.
- Biswas, N.N., Akim, K., Pulpan, H., and Tytgat, G., 1986, Characteristics of regional stresses in Alaska and neighboring areas: Geophysical Research Letters, v. 13, p. 177–180.
- Biswas, N.N., Gedney, L.D., and Huang, P., 1977, Seismicity studies in northeast Alaska by a localized seismographic network: Fairbanks, University of Alaska Geophysical Institute Final Report No. 14–08–0001–15220, 22 p.
- Black, L.T., 1981, Volcanism as a factor in human ecology; The Aleutian case: Ethnohistory, v. 28, p. 313–340.
- Black, R.F., 1946, Permafrost investigations at Point Spencer, Alaska: U.S. Geological Survey Permafrost Program Progress Report 2, 20 p.
- Black, R.F., 1950, Permafrost, in Trask, P.D., ed., Applied sedimentation: New York, John Wiley and Sons, p. 247–275.
- Black, R.F., 1953, Permafrost; A review: New York Academy of Sciences, v.15, no.5, p. 126-131.
- Black, R.F., 1954, Permafrost; A review: Geological Society of America Bulletin, v. 65, p. 839-855.
- Black, R.F., 1976, Geology of Umnak Island, eastern Aleutians as related to the Aleuts: Arctic and Alpine Research, v. 8, p. 7–35.
- Black, R.F., 1983, Glacial chronology of the Aleutian Islands, *in* Thorson, R.M., and Hamilton, T.D., eds., Glaciation in Alaska; Extended abstracts from a workshop: University of Alaska Museum Occasional Paper 2, p. 5–10.
- Black, R.F., and Barksdale, W.L., 1948, Terrain and permafrost, Umiat area Alaska: U.S. Geological Survey Permafrost Program Progress Report 5, 23 p.
- Blanchard, D.C., and Tailleur, I.L., 1983, Pebble shale (Early Cretaceous) depositional environments in National Petroleum Reserve in Alaska (NPRA): American Association of Petroleum Geologists Bulletin, v. 67, p. 424–425.
- Blasko, D.P., 1974, Natural gas fields; Cook Inlet basin, Alaska: U.S. Bureau of Mines Open-File Report 35-74, 29 p.
- Blasko, D.P., 1976, Oil and gas seeps in Alaska; Alaska Peninsula, western Gulf of Alaska: U.S. Bureau of Mines Report of Investigations 8136, 123 p.
- Blasko, D.P., Wenger, W.J., and Morris, J.C., 1972, Oilfields and crude oil characteristics, Cook Inlet basin, Alaska: U.S. Bureau of Mines Report of Investigations 7688, 44 p.
- Blodgett, R.B., 1983, Paleobiogeographic affinities of Devonian fossils from the Nixon Fork terrane, southwestern Alaska, *in* Stevens, C.H., ed., Pre-Jurassic rocks in western North American suspect terranes: Pacific Section, Society of Economic Paleontologists and Mineralogists, p. 125–130.
- Blodgett, R.B., 1983, Paleobiogeographic implications of Devonian fossils from the Nixon Fork terrane, southwestern Alaska, *in* Stevens, C.H., ed., Pre-Jurassic rocks in western North American suspect terranes: Pacific Section, Society of Exploration Petrologists and Mineralogists, p. 125–130.
- Blodgett, R.B., 1983, Paleobiogeographic implications of Devonian fossils from the Nixon Fork terrane, southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 428.
- Blodgett, R.B., 1987, Taxonomy and paleobiogeographic affinities of an early Middle Devonian (Eifelian) gastropod faunule from the Livengood quadrangle, east-central Alaska: Corvallis, Oregon State University, Ph.D. dissertation, 139 p.
- Blodgett, R.B., 1993, *Dutrochus*, a new microdomatid (Gastropoda) genus from the Middle Devonian (Eifelian) of west-central Alaska: Journal of Paleontology, v. 67, p. 194–197.
- Blodgett, R.B., and 5 others, 1986, Age revisions for the Nanook Limestone and Katakturuk Dolomite, northeastern Brooks Range, Alaska: U.S. Geological Survey Circular 978, p. 5–10.
- Blodgett, R.B., and Clough, J.G., 1985, The Nixon Fork terrane; Part of an in place peninsular extension of the North American Paleozoic continent [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 342.
- Blodgett, R.B., and Gilbert, W.C., 1992, Upper Devonian shallow-marine siliciclastic strata and associated fauna and flora, Lime Hills D-4 quadrangle, southwest Alaska *in* Bradley, D.C., and Dusel-Bacon, C., eds., Geological Studies in Alaska by the U.S. Geological Survey, 1991: US Geological Survey Bulletin 2041, p. 106–115.

- Blodgett, R.B., and Gilbert, W.G., 1983, The Cheeneetnuk Limestone; A new Early(?) to Middle Devonian formation in the McGrath A-4 and A-5 quadrangles, west-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 85, 6 p.
- Blodgett, R.B., and Rohr, D.M., 1989, Two new Devonian spine-bearing pleurotomariacean gastropod genera from Alaska: Journal of Paleontology, v. 63, p. 47–52.
- Blodgett, R.B., Clough, J.G., and Smith, T.N., 1984, Ordovician-Devonian paleogeography of the Holitna Basin, southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 271.
- Blodgett, R.B., Clough, J.G., Dutro, J.T., Jr., Ormiston, A.R., Palmer, A.R., and Taylor, M.E., 1986, Age revisions for the Nanook Limestone and Katakturuk Dolomite, northeastern Brooks Range, *in* Bartsch-Winkler, S., and Reed, K.M., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 5–10.
- Blodgett, R.B., Clough, J.G., Harris, A.G., and Robinson, M.S., 1991, The Mount Copleston Limestone, a new Lower Devonian formation in the Shublik Mountains, northeastern Brooks Range, Alaska, *in* Bradley, D.C., and Ford, A., eds., Geologic studies in Alaska by the U.S. Geological Survey in 1990: U.S. Geological Survey Bulletin 1999, p. 1–5.
- Blodgett, R.B., Rohr, D.M., and Boucot, A.J., 1987, Early Middle Devonian gastropod biogeography of North America [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 591.
- Blodgett, R.B., Rohr, D.M., Harris, A.G., and Jia-yu, R., 1988, A major unconformity between Upper Ordovician and Lower Devonian strata in the Nanook Limestone, Shublik Mountains, northeastern Brooks Range, *in* Hamilton, T. D., and Galloway, J. P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 18–23.
- Blodgett, R.B., Wheeler-Crowder, K.L., Rohr, D.M., Harris, A.G., and Weber, F.R., 1987, Late Ordovician fossils from the Fossil Creek volcanics of the Livengood quadrangle; Significance for Late Ordovician glacio-eustasy: U.S. Geological Survey Circular 998, p. 54–58.
- Blodgett, R.B., Zhang, N., Ormiston, A.R., and Weber, F.R., 1988, A Late Silurian age determination for the limestone of the "Lost Creek unit," Livengood C-4 quadrangle, east-central Alaska: *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 56–58.
- Blome, C.D., Reed, K.M., and Tailleur, I.L., 1988, Radiolarian biostratigraphy of the Otuk Formation in and near the National Petroleum Reserve in Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 725–751.
- Bloomer, S.H., Stern, R.J., Fisk, E., and Geschwind, C.H., 1989, Shoshonitic volcanism in the northern Mariana arc, 1. Mineralogic and major trace element characteristics: Journal of Geophysical Research, v. 94, p. 4469–4496.
- Blum, J.D., 1983, Petrology, geochemistry, and isotope geochronology of the Gilmore Dome and Pedro Dome plutons, Fairbanks district, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–2, 59 p.
- Blum, J.D., 1985, A petrologic and Rb-Sr isotopic study of intrusive rocks near Fairbanks, Alaska: Canadian Journal of Earth Sciences, v. 22, p. 1314–1321.
- Blum, J.D., Blum, A.E., Davis, T.E., and Dillon, J.T., 1987, Petrology of cogenetic silica-saturated and -oversaturated plutonic rocks in the Ruby geanticline of north-central Alaska: Canadian Journal of Earth Sciences, v. 24, p. 159–169.
- Blumer, J.W., 1981, Review of Mobil coal leases—Yentna region, Alaska, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21-23, 1980): University of Alaska Mineral Industries Research Laboratory Report no. 50, p. 122–126.
- Blythe, A.E., Wirth, K.R., and Bird, J.M., 1990, Fission track and ⁴⁰Ar/³⁹Ar ages of metamorphism and uplift, Brooks Range, northern Alaska [abs.]: Geological Association of Canada Program and Abstracts, v. 15, p. A–12.
- Boak, J.L., Turner, D.L., Wallace, W.K., and Moore, T.E., 1985, K-Ar ages of allochthonous mafic and ultramafic complexes and their metamorphic aureoles, western Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 69, no. 4, p. 656–657.
- Boak, J.M., Turner, D.L., Henry, D.J., Moore, T.E., and Wallace, W.K., 1987, Petrology and K-Ar ages of the Misheguk igneous sequence—an allochthonous mafic and ultramafic complex—and its metamorphic aureole, Western Brooks Range, Alaska, *in* Tailleur, I.L., and Werner, Paul, eds., Alaskan North Slope Geology: Society of Economic Paleontologists and Mineralogists, Pacific Section, Bakersfield, Calif., no. 50, v. 2, p. 737–745.

- Bodnar, D.A., 1989, Stratigraphy of the Otuk Formation and Cretaceous coquinoid limestone and shale unit, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 2, p. 277–284.
- Bogdanov, N.A., and Tilman, S.M., 1964, Similarities in the development of the Paleozoic structure of Wrangell Island and the western part of the Brooks Range (Alaska), *in* Soreshchanie po Problem Tektoniki: Moskva, Nauka, Skladchatye oblasti Evrazil, Matenaly, p. 219–230.
- Bohm, J.G., Chmelik, F.B., Stewart, G.H., Turner, R.F., Waetjen, H.H., and Wills, J.C., 1976, Geological and operational summary, Atlantic Richheld Northern Gulf of Alaska COST Well No. 1: U.S. Geological Survey Open-File Report 76–635, 33 p.
- Boillot, G., and Winterer, E.L., 1988, Drilling on the Galicia margin: Retrospect and prospect, *in* Boillot, G., Winterer, E. and others, eds., Proceedings of the Ocean Drilling Program, Scientific results, Volume 103: College Station, Tex., Ocean Drilling Program, p. 809–828.
- Bol, A.J., Coe, R.S., Grommé, C.S., and Hillhouse, J.W., 1992, Paleomagnetism of the Resurrection Peninsula, Alaska: Implications for the tectonics of southern Alaska and the Kula-Farallon ridge: Journal of Geophysical Research, v. 97, p. 17,213–17,232.
- Bolm, J.G., 1983, Lithology and geophysical log interpretation *in* Turner, R.F., ed., Geological and operational summary, Norton Sound COST No. 1 well, Norton Sound, Alaska: U.S. Geological Survey Open-file Report 83–124, p. 58–97.
- Bolm, J.G., 1984, Lithology and well log interpretation, *in* Turner, R.F., ed., Geological and operational summary, St. George Basin COST No. 1 well, Bering Sea, Alaska: U.S. Minerals Management Service OCS Report MMS 84–0016, p. 41–78.
- Bolm, J.G., and McCulloh, T.H., 1986, Sandstone diagenesis, *in* Magoon, L.B., ed., Geologic studies of the lower Cook Inlet COST No. 1 well, Alaska Outer Continental Shelf: U.S. Geological Survey Bulletin 1596, p. 51–53.
- Bond, G.C., 1973, A late Paleozoic volcanic arc in the eastern Alaska Range, Alaska: Journal of Geology, v. 81, p. 557–575.
- Bond, G.C., 1976, Geology of the Rainbow Mountain-Gulkana Glacier area, eastern Alaska Range, with emphasis on upper Paleozoic strata: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 45, 47 p.
- Bond, G.C., and Kominz, M.A., 1984, Construction of tectonic subsidence curves for the early Paleozoic miogeocline, southern Canadian Rocky Mountains: Implications for subsidence mechanisms, age of breakup, and crustal thinning: Geological Society of America Bulletin, v. 95, p. 155–173.
- Borsuk. A.M., and Tsvetkov, A.A., 1980, Magmatic associations of the western part of the Aleutian Island arc: International Geology Review, v. 24, p. 317–329.
- Boss, R.F., Lennon, R.B., and Wilson, B.W., 1976, Middle Ground Shoal oil field, Alaska, *in* Braunstein, J., ed., North American oil and gas fields: American Association of Petroleum Geologists Memoir 24, p. 1–22.
- Boucher, G.W., and Fitch, T.J., 1969, Microearthquake seismicity of the Denali Fault: Journal Geophysical Research, v. 74, no. 27, p. 6638–6648.
- Boucot, A.J., and Gray, J., 1980, A Cambro-Permian pangeaic model consistent with lithofacies and biogeographic data, *in* Strangeway, D.W., ed., The continental crust and its mineral deposits: Geological Association of Canada Special Paper 20, p. 389–419.
- Boucot, A.J., and Gray, J., 1983, A Paleozoic Pangea: Science, v. 222, no. 4624, p. 571–581.
- Boudinier, J.L., Dupuy, C., Dostal, J., and Meriet, C., 1987, Distribution of trace transition elements in olivine and pyroxenes from ultramafic xenoliths; Application of microprobe analysis: American Mineralogist, v. 72, p. 902–913.
- Bowsher, A.L., and Dutro, J.T., Jr., 1957, The Paleozoic section in the Shainin Lake area, central Brooks Range, Alaska, *in* Part 3, Areal geology: Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 303-A, p. 1–39.
- Box, S.E., 1982, Kanektok Suture, SW Alaska; Geometry, age, and relevance: EOS (Transactions of the American Geophysical Union) v. 63, p. 915.
- Box, S.E, 1983, Sinuous late Early Cretaceous arc-continent collisional belt in the NE USSR and NW Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 531.
- Box, S.E, 1983, Tectonic synthesis of Mesozoic histories of the Togiak and Goodnews terranes, SW Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 406.

- Box, S.E, 1984, Implications of a possible continuous 4,000 km long late Early Cretaceous arc-continent collisional belt in NE USSR and NW Alaska for the tectonic development of Alaska, *in* Howell, D.G., Jones, D.L., Cox, A., and Nur, A., eds., Proceedings of the Circum-Pacific Terrane Conference: Stanford, Calif., Stanford University Publications in the Geological Sciences, p. 33–35.
- Box, S.E, 1984, Early Cretaceous arc-continent collision and subsequent strike slip displacement in southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 272.
- Box, S.E., 1985, Mesozoic tectonic evolution of the northern Bristol Bay region, southwestern Alaska: Santa Cruz, University of California, Ph.D. dissertation, 163 p.
- Box, S.E., 1985, Early Cretaceous orogenic belt in northwestern Alaska; Internal organization, lateral extent, and tectonic interpretation, *in* Howell, D. G., ed., Tectonostratigraphic terranes of the Circum-Pacific region: Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 1, p. 137–145.
- Box, S.E., 1985, Geologic setting of high-pressure metamorphic rocks, Cape Newenham area, southwestern Alaska, *in* Bartsch-Winkler, Susan, ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 37–42.
- Box, S.E., 1985, Terrane analysis of the northern Bristol Bay region, southwestern Alaska, *in* Bartsch-Winkler, Susan, ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 32–37.
- Box, S.E., 1987, Late Cretaceous or younger SW-directed extensional faulting: Cosmos Hills, Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, no. 6, p. 361.
- Box, S.E., and Murphy, J.M., 1987, Late Mesozoic structural and stratigraphic framework, eastern Bethel quadrangle, southwestern Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 78–82.
- Box, S.E., and Patton, W.W., Jr., 1989, Igneous history of the Koyukuk terrane, western Alaska; Constraints on the origin, evolution, and ultimate collision of an accreted island arc terrane: Journal of Geophysical Research, v. 94, no. Bl l, p. 15,843–15,867.
- Box, S.E., Moll-Stalcup, E. J., Wooden, J.L., and Bradshaw, J.Y., 1990, Kilbuck terrane: Oldest known rocks in Alaska: Geology, v. 18, p. 1219–1222.
- Box, S.E., Patton, W.W., Jr., and Carlson, C., 1985, Early Cretaceous evolution of the northeastern Yukon-Koyukuk basin, west-central Alaska, *in* Bartsch- Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 21–24.
- Box, S.E., Moll-Stalcup, E.J., Frost, T.P., and Murphy, J.M., 1993, Preliminary geologic map of the Bethel and southern Russian Mission quadrangles, southwestern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–2226–A, 20 p., scale 1:250,000.
- Boyd, K.A., and Hiles, R.M., 1985, Oil and gas developments in Alaska in 1984: American Association of Petroleum Geologists Bulletin, v. 69, no. 10, p. 1486.
- Boyd, T.M., and Creager, K.C., 1991, The geometry of Aleutian subduction: Three-dimensional seismic imaging: Journal of Geophysical Research, v.96, p. 2267–2291.
- Boyd, T.M. and Lerner-Lam, A.L., 1988, Spatial distribution of turn-of-the-century seismicity along the Alaska-Aleutian arc Bulletin of the Seismological Society of America, v. 78, p. 636–650.
- Brabb, E.E., 1967, Stratigraphy of the Cambrian and Ordovician rocks of eastcentral Alaska: U.S. Geological Survey Professional Paper 559–A, 30 p.
- Brabb, E.E., 1969, Geologic map of the Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–573, scale 1:250,000.
- Brabb, E.E., 1969, Six new Paleozoic and Mesozoic formations in east-central Alaska: U.S. Geological Survey Bulletin 1274–1, 26 p.
- Brabb, E.E., 1970, Preliminary geologic map of the Black River quadrangle, eastcentral Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–601, scale 1:250,000.
- Brabb, E.E., and Churkin, M., Jr., 1967, Stratigraphic evidence for the Late Devonian age of the Nation River Formation, east-central Alaska, *in* U.S. Geological Survey research 1967: U.S. Geological Survey Professional Paper 575–D, p. D4–D15.
- Brabb, E. E., and Churkin, M., Jr., 1969, Geologic map of the Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map 1–573, 1 sheet, scale 1:250,000.

- Brabb, E.E., and Hamachi, B.R., 1977, Chemical composition of Precambrian, Paleozoic, Mesozoic, and Tertiary rocks from east-central Alaska: U.S. Geological Survey Open-File Report 77–631, 166 p.
- Bradley, D.C., and Kusky, T.M., 1992, Deformation history of the McHugh Complex, Seldovia quadrangle, south-central Alaska, *in* Bradley, D.C., and Ford, A.B., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1990: U.S. Geological Survey Bulletin 1999, p. 17–32.
- Brandon, M.T., Orchard, M.J., Parrish, R.R., Sutherland Brown, A., and Yorath, C.J., 1986, Fossil ages and isotopic dates from Paleozoic Sicker Group and associated intrusive rocks, Vancouver Island, British Columbia, *in* Current research, Part A: Geological Survey of Canada Paper 86–1A, p. 683–696.
- Bressler, J.R., Jones, W.C., and Cleveland, G., 1985, Geology of a buried channel system of the Denali Placer Gold Mine: Alaska Miner, January, 1985, p. 9.
- Brew, D.A., 1968, The role of volcanism in post-Carboniferous tectonics of southeastern Alaska and nearby regions, North America, *in* Proceedings, 23rd International Geological Congress, Prague 1968: Prague, Academia, p. 107–121.
- Brew, D.A., 1978, Geology, *in* Brew, D.A., and 7 others, eds., Mineral resources of the Glacier Bay National Monument Wilderness Study area, Alaska: U.S. Geological Survey Open-File Report 78–494, p. Bl–B21.
- Brew, D.A., 1988, Latest Mesozoic and Cenozoic igneous rocks of southeastern Alaska–a synopsis: U.S. Geological Survey Open-File Report 88–405, 55 p., 24 figs.
- Brew, D.A., and Ford, A.B., 1977, Preliminary geologic and metamorphic isograd map, Juneau B-1 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-846, 1 sheet, scale 1:31,680.
- Brew, D.A., and Ford, A.B., 1978, Megalineament in southeastern Alaska marks southwest edge of Coast Range batholithic complex: Canadian Journal of Earth Sciences, v. 15, no. 11, p. 1763–1772.
- Brew, D.A., and Ford, A.B., 1981, The Coast plutonic complex sill, southeastern Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B96–B99.
- Brew, D.A., and Ford, A.B., 1983, Comment on 'Tectonic accretion and the origin of the two major metamorphic and plutonic welts in the Canadian Cordillera': Geology, v. 11, p. 427–429.
- Brew, D.A., and Ford, A.B., 1984, Paragenesis and regional significance of eclogitic rocks from the Fairbanks District, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 272.
- Brew, D.A., and Ford, A.B., 1984, The northern Coast plutonic-metamorphic complex, southeastern Alaska and northwestern British Columbia, *in* Coonrad, W.C., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 120–124.
- Brew, D.A., and Ford, A.B., 1984, Tectonostratigraphic terranes in the Coast plutonic-metamorphic complex, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 90–93.
- Brew, D.A., and Ford, A.B., 1984, Timing of metamorphism and deformation in the Coast Plutonic-Metamorphic Complex, near Juneau, Alaska [abs.]: Geological Society of America Abstracts with Program, v. 16, p. 272.
- Brew, D.A., and Ford, A.B., 1985, Preliminary reconnaissance geologic map of the Juneau, Taku River, Atlin, and part of the Skagway 1:250,000 quadrangles, southeastern Alaska: U.S. Geological Survey Open-File Report 85–395, 23 p., 2 sheets, scale 1:250,000.
- Brew, D.A., and Ford, A.B., 1985, Southeastern Alaska coincident zone, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 82–86.
- Brew, D.A., and Ford, A.B., 1986, Phase petrology of eclogitic rocks in the Fairbanks District, Alaska, *in* Evans, B.W., and Brown, E.H., eds., Blueschists and eclogites: Geological Society of America Memoir 164, p. 155–167.
- Brew, D.A., and Grybeck, D., 1984, Geology of the Tracy Arm-Fords Terror Wilderness Study Area and vicinity, Alaska *in* U.S. Geological Survey and U.S. Bureau of Mines, Mineral resources of Tracy Arm-Fords Terror Wilderness Study Area and vicinity, Alaska: U.S. Geological Survey Bulletin 1525, p. A19–A52, scale 1:125,000.
- Brew, D.A., and Johnson, B.R., Grybeck, Donald, Griscom, Andrew, and Barnes, D.F., Kimball, A.L., Still, J.C., and Rataj, J.L., 1978, Mineral resources of Glacier Bay National Wilderness Study Area, Alaska: U.S. Geological Survey Open-File Report 78–494, 670 p., 7 sheets.
- Brew, D.A., and Morrell, R.P., 1979, Correlation of the Sitka graywacke, unnamed rocks in the Fairweather Range, and Valdez Group, southeastern and south-central Alaska, *in* Johnson, K. M., and Williams, J. R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B123–B125.

- Brew, D.A., and Morrell, R.P. 1980, Preliminary map of intrusive rocks in southeastern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1048, scale 1:1,000,000.
- Brew, D.A., and Morrell, R.P. 1983, Intrusive rocks and plutonic belts in southeastern Alaska *in* Roddick, J.A., ed., Circum-Pacific plutonic terranes: Geological Society of America Memoir 159, p. 171–193.
- Brew, D.A., and Muffler, L.J.P., 1965, Upper Triassic undevitrified volcanic glass from Hound Island, Keku Strait, southeastern Alaska, *in* Geological Survey research, 1965: U.S. Geological Survey Professional Paper 525–C, p. C38–C43.
- Brew, D.A., and Muffler, L.J.P. 1966, Upper Triassic glass from Hound Island, Keku Strait, southeastern Alaska [abs.]: Geological Society of America Special Paper 87, p. 196.
- Brew, D.A., and 7 others, 1978, Mineral resources of the Glacier Bay National Monument Wilderness Study Area, Alaska: U.S. Geological Survey Open File Report 78–494, 692 p., scale 1:125,000.
- Brew, D.A., and 5 others, 1979, The Tertiary Kuiu-Etolin volcanic-plutonic belt, southeastern Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B129–B130.
- Brew, D.A., Ford, A.B., and Garwin, S.L., 1985, Fossiliferous Middle and(or) Upper Triassic rocks within the Coast plutonic-metamophic complex southeast of Skagway, *in* Bartsch-Winkler, S., ed., The U.S. Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 86–89.
- Brew, D.A., Ford, A.B., and Himmelberg, G.R., 1987, Late Cretaceous sedimentation, volcanism, plutonism, metamorphism and deformation in the northern Cordillera, southeastern Alaska [abs.]: Geological Society of America, Abstracts with Programs, v. 19, no. 7, p. 600.
- Brew, D.A., Grybeck, Donald, Johnson, B.L., Jachens, R.C., Nutt, C.J., Barnes, D.F., Kimball, A.L., Still, J.C., and Rataj, J.L., 1977, Mineral resources of the Tracy Arm-Fords Terror Wilderness Study Area and vicinity, Alaska: U.S. Geological Survey Open-File Report 77–649, scale 1:125,000.
- Brew, D.A., Hammarstrom, J.M., Himmelberg, G.H., Wooden, J.L., Loney, R.A., and Karl, S.M., 1991, Crawfish Inlet pluton, Baranof Island, southeastern Alaska—A north-tilted Eocene body or an untilted magma [abs.]: Geological Society of America, Abstracts with Programs, v.23, no.2, p. 8.
- Brew, D.A., Johnson, B.R., Grybeck, D., Griscom, A., and Barnes, D.F., 1978, Mineral resources of the Glacier Bay National Monument wilderness study area, Alaska: U.S. Geological Survey Open-File Report 78–494, 670 p.
- Brew, D.A., Karl, S.M., and Miller, J.W., 1988, Megafossils (*Buchia*) indicate Late Jurassic age for part of the Kelp Bay Group on Baranof Island, southeastern Alaska, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 147–149.
- Brew, D.A., Karl, S.M., and Tobey, E.F., 1985, Reinterpretation of age of Kuiu-Etolin volcanic belt, Kuprcanof Island, southeastern Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments in 1983: U.S. Geological Survey Circular 945, p. 86–88.
- Brew, D.A., Karl, S.M., Loney, R.A., Ford, A.B., Himmelberg, G.R., and Hammarstrom, J.M., 1992, Jurassic and Cretaceous batholiths of southeastern Alaska: how many arcs? [abs.]: Geological Society of America, Abstracts with Programs, v. 24, no. 5, p. 9.
- Brew, D.A., Muffler, L.J.P., and Loney, R.A., 1969, Reconnaissance geology of the Mount Edgecumbe volcanic field, Kruzof Island, southeastern Alaska: U.S. Geological Survey Professional Paper 650–D, p. Dl–D18.
- Brew, D.A., Ovenshine, A.T., Karl, S.M., and Hunt, S.J., 1984, Preliminary reconnaissance geologic map of the Petersburg and parts of the Port Alexander and Sumdum 1:250,000 quadrangles, southeastern Alaska: U.S. Geological Survey Open-File Report 84–405, 43 p., 2 sheets, scale 1:250,000.
- Brewer, W.M., 1982, Stratigraphy, structure, and metamorphism of the Mount Deborah area, central Alaska Range, Alaska: Madison, University of Wisconsin, Ph.D. dissertation, 318 p.
- Brewer, W., Sherwood, K., and Craddock, C., 1984, Metamorphic patterns in the central Alaska Range and the recognition of terrane bounding faults [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 272.
- Briggs, N.D., and Westgate, J.A., 1978, Fission-track age of tephra marker beds in Beringia [abs.]: American Quaternary Association, Abstracts, Fifth Biennial meeting, Edmonton, Canada, p. 190.
- Brigham-Grette, J., and Carter, L.D., 1992, Pliocene manne transgressions of northern Alaska—Circumarctic correlations and paleoclimatic interpretations: Arctic, v. 45, p. 74–89.

- Brigham-Grette, J., and Hopkins, D.M., 1989, Extensive middle Pleistocene glaciation across central Beringia; Implications for climatic contrasts between mid and late Bruhnes [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. A53.
- Brigham-Grette, J., Benson, S., Hopkins, D.M., Heiser, P., Ivanov, V.F., and Basilyan, A., 1992, Middle and late Pleistocene Russian glacial ice extent in the Bering Strait region—Results of recent field work [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. A346.
- Britton, J.M., 1970, Petrology and petrography of the Pedro Dome plutons, Alaska: Fairbanks, University of Alaska, Master's thesis, 52 p.
- Brocher, T.M., Fisher, M.A., Geist, E.L., and Christensen, N. 1., 1989, A high-resolution seismic reflection/refraction study of the Chugach-Peninsular terrane boundary, southern Alaska: Journal of Geophysical Research, v. 94, p. 4441–4455.
- Brocher, T.M., Moses, M.A., Fisher, M.A., Stephens, C.D., and Geist, E.L., 1991, Images of the plate boundary beneath southern Alaska, *in* Meissner, R., and others, eds., Continental lithosphere; deep seismic reflections: American Geophysical Union Geodynamic Series, v. 22, p. 241–246.
- Brockway, R., and 7 others, 1975, Bristol Bay region, stratigraphic correlation section, southwest Alaska: Anchorage, The Alaska Geological Society, 1 sheet.
- Brogan, G.E., Cluff, L.S., Korringa, M.K., and Slemmons, D.B., 1975, Active faults of Alaska: Tectonophysics, v. 29, p. 73–85.
- Brook, C.A., and 5 others, 1979, Hydrothermal convection systems with reservoir temperatures >90°C, *in* Muffler, L.J.P., ed., Assessment of geothermal resources of the United States; 1978: U.S. Geological Survey Circular 790, p. 18–85.
- Brooks, A. H., 1906, The geography and geology of Alaska with a section on climate by Cleveland Abbe, Jr.: U.S. Geological Survey Professional Paper 45, 327 p.
- Brooks, A.H., and Kindle, E.M., 1908, Paleozoic and associated rocks of the upper Yukon, Alaska: Geological Society of America Bulletin, v. 19, p. 255–314.
- Brooks, A.H., Richardson, G.B., Collier, A.J., and Mendenhall, W.C., 1901, Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900: U.S. Geological Survey Special Publication, 185 p.
- Brooks, P.D., and O'Brien, T.J., 1986, The evolving Alaska mapping program: Photogrammetric Engineering and Remote Sensing, v. 52, no. 6, p. 769–777.
- Brophy, J.G., 1984, The chemistry and physics of Aleutian arc volcanism; The Cold Bay volcanic center, southwestern Alaska: Baltimore, The Johns Hopkins University, Ph.D. dissertation, 422 p.
- Brophy, J.G., 1986, The Cold Bay volcanic center, Aleutian volcanic arc l; Implications for the origin of high-alumina arc basalt: Contributions to Mineralogy and Petrology, v. 93, p. 368–380.
- Brophy, J.G., 1986, Source rock clinopyroxene, Eu anomalies, and the origin of hialumina basalt: EOS, Transactions of the American Geophysical Union, v. 67, p. 405.
- Brophy, J.G., 1987, The Cold Bay Volcanic Center, Aleutian volcanic arc; 11, Implications for fractionation and mixing mechanism in calc-alkaline andesite genesis: Contributions to Mineralogy and Petrology, v. 97, p. 378–388.
- Brophy, J.G., 1989, Can high alumina basalt be derived from low alumina arc basalt? Evidence from Kanaga Island, Aleutian arc, Alaska: Geology, v. 17, p. 333–336.
- Brophy, J.G., 1989, Basalt convection and plagioclase retention, a model for the generation of high-alumina arc basalt: Journal of Geology, v. 97, p. 319–329.
- Brophy, J.G., 1990, Andesites from northeastern Kanaga Island, Aleutians; Implications for calc-alkaline fractionation mechanisms and magma chamber development: Contributions to Mineralogy and Petrology, v. 104, p. 568–581.
- Brophy, J.G., 1991, Composition gaps, critical crystallinity, and fractional crystallization in orogenic (calc-alkaline) magmatic systems: Contributions to Mineralogy and Petrology, v. 109, p. 173–182.
- Brophy, J.G., and Marsh, B.D., 1986, On the origin of high-Alumina arc basalt and the mechanics of melt extraction: Journal of Petrology, v. 27, p. 763–789.
- Brosgé, W.P., 1960, Metasedimentary rocks in the south-central Brooks Range, Alaska: U.S. Geological Survey Professional Paper 400–B, p. B351–B352.
- Brosgé, W.P., 1975, Metamorphic belts in southern Brooks Range, *in* Yount, M.E., ed., United States Geological Survey Program, 1975: U.S. Geological Survey Circular 722, p. 40–41.

- Brosgé, W.P., and Dutro, J.T., Jr., 1973, Paleozoic rocks of northern and central Alaska: American Association of Petroleum Geologists Memoir 19, p. 361–375.
- Brosgé, W.P., and Pessel, G.H., 1977, Preliminary reconnaissance geologic map of Survey Pass quadrangle, Alaska: U.S. Geological Survey Open-File Report 77–27, 1 sheet, scale 1:250,000.
- Brosgé, W.P., and Reiser, H.N., 1962, Preliminary geologic map of the Christian quadrangle, Alaska: U.S. Geological Survey Open-File Report 62–229, scale 1:250,000.
- Brosgé, W.P., and Reiser, H.N., 1964, Geologic map and section of the Chandalar quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–375, 1 sheet, scale 1:250,000.
- Brosgé, W.P., and Reiser, H.N., 1965, Preliminary geologic map of the Arctic quadrangle, Alaska: U.S. Geological Survey Open-File Report 65–22, scale 1:250,000.
- Brosgé, W.P., and Reiser, H.N., 1969, Preliminary geologic map of the Coleen quadrangle, Alaska: U.S. Geological Survey Open-File Report 69–370, scale 1:250,000.
- Brosgé, W.P., and Reiser, H.N., 1971, Preliminary bedrock geologic map, Wiseman and eastern Survey Pass quadrangles, Alaska: U. S. Geological Survey Open-File Report 71–56, scale 1:250,000.
- Brosgé, W.P., and Tailleur, I.L., 1970, Depositional history of northern Alaska, *in* Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proceedings: American Association of Petroleum Geologists, Los Angeles, Calif., p. D1–D18.
- Brosgé, W.P., and Tailleur, I.L., 1971, Northern Alaska petroleum province, *in* Cram, I. H., ed., Future petroleum provinces of the United States—Their geology and potential: American Association of Petroleum Geologists Memoir 15, p. 68–99.
- Brosgé, W.P., and Whittington, C.L., 1966, Geology of the Umiat-Maybe Creek region, Alaska: U.S. Geological Survey Professional Paper 303–H, p. H501–H638.
- Brosgé, W.P., Brabb, E.E., and King, E.R., 1970, Geologic interpretation of reconnaissance aeromagnetic survey of northeastern Alaska: U.S. Geological Survey Bulletin 1271–F, 14 p.
- Brosgé, W.P., Dutro, J.T., Jr., Mangus, M.D., and Reiser, H.N., 1962, Paleozoic sequence in eastern Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 46, no. 12, p. 2174–2198.
- Brosgé, W.P., Lanphere, M.A., Reiser, H.N., and Chapman, R.M., 1969, Probable Permian age of the Rampart Group, central Alaska: U.S. Geological Survey Bulletin 1294–B, 18 p.
- Brosgé, W.P., Reiser, H.N., and Dutro, J.T., Jr., 1979, Significance of Middle Devonian clastic rocks in the eastern Brooks Range, Alaska: U.S. Geological Survey Circular 823–B, p. B24–B25.
- Brosgé, W.P., Reiser, H.N., and Lanphere, M.A., 1974, Pitka ultramafic complex may be a klippe, *in* Carter, C., ed., U.S. Geological Survey Alaska Program, 1974: U.S. Geological Survey Circular 700, p. 42.
- Brosgé, W.P., Reiser, H.N., and Yeend, W., 1973, Reconnaissance geologic map of the Beaver quadrangle Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–525, 1 sheet, scale 1:250,000.
- Brosgé, W.P., Reiser, H.N., Dutro, J.T., Jr., and Churkin, M., Jr., 1966, Geologic map and stratigraphic sections, Porcupine River Canyon, Alaska: U.S. Geological Survey Open-File Report 66–10, 4 sheets, scale 1:63,360.
- Brosgé, W.P., Reiser, H.N., Dutro, J.T., Jr., and Detterman, R.L., 1976, Reconnaissance geologic map of the Table Mountain quadrangle, Alaska: U.S. Geological Survey Open-File Report 76–546, scale 1:200,000.
- Brosgé, W.P., Reiser, H.N., Dutro, J.T., Jr., and Detterman, R.L., 1979, Bedrock geologic map of the Philip Smith Mountains quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–897B, scale 1:250,000.
- Brosgé, W.P., Reiser, H.N., Dutro, J.T., Jr., and Nilsen, Tor, 1979, Geologic map of Devonian rocks in parts of the Chandler Lake and Killik River quadrangles, Alaska: U.S. Geological Survey Open-File Report 79–1224, scale 1:200,000.
- Brosgé, W.P., Reiser, H.N., Patton, W.W., Jr., and Mangus, M.D., 1960, Geologic map of the Killik-Anaktuvuk Rivers region, Brooks Range, Alaska: U.S. Geological Survey Open-File Report 60–21, scale 1:96,000.
- Brosgé, W.P., Whittington, C.L., and Morris, R.H., 1966, Geology of the Umiat-Maybe Creek region, Alaska, *in* Part 3, Areal geology: Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 303–H, p. 501–638.
- Brown, E.H., and Burmeister, R.F., 1991, Metamorphic evidence for tilt of the Spuzzum Pluton: Diminished basis for the "Baja British Columbia" concept: Tectonics, v. 10, p. 978–985.

- Brown, E.H., and Forbes, R.B., 1984, Paragenesis and regional significance of eclogitic rocks from the Fairbanks district, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 272.
- Brown, F.R., 1947, Apollo Mine, Unga Island, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys (Territorial Department of Mines) Report of Mineral Investigations MR-138-1, 33 p.
- Brown, J., 1973, Environmental considerations for the utilization of permafrost terrain, in Permafrost, North American Contribution to Second International Conference, Yakutsk, U.S.S.R., July 13 28, 1973: Washington, D.C., National Academy of Sciences, p. 587–590.
- Brown, J., and Grave, N.A., 1979, Physical and thermal disturbance and protection of permafrost: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Special Report 79–5, 42 p.
- Brown, J., and Grave, N.A, 1979, Physical and thermal disturbance and protection of permafrost, *in* Proceedings, Third International Conference on Permafrost, July 10-13, 1978, Edmonton, Alberta, V. 2: Ottawa, National Research Council of Canada, p. 51–91.
- Brown, J., and Hemming, J.E., 1980, Workshop on environmental protection of permafrost terrain: The Northern Engineer, v. 12, no. 2, p. 30–36.
- Brown, L., Klein, J., Middleton, R., Sacka, I.S., and Tera, F., 1982, ¹⁰Be in island-arc volcanoes and implications for subduction: Nature, v. 299, p. 718 –720.
- Brown, R.J.E., 1970, Permafrost as an ecological factor in the subarctic, *in* Ecology of the subarctic regions, v. 1 of Proceedings, Ecology and conservation; A symposium, Helsinki, 1966, Paris, UNESCO, p. 129–140.
- Brown, R.J.E., and Péwé, T.L., 1973, Distribution of permafrost in North America and its relationship to the environment; A review, 1963-1973, *in* Permafrost, the North American contribution to the Second International Conference, Yakutsk, U.S.S.R., July 13-28, 1973: Washington, D.C., National Academy of Sciences, p. 71–100.
- Brown, R.J.E., ed., 1963, Proceedings of the First Canadian Conference on Permafrost, April 17-18, 1962: National Research Council of Canada, Associate Committee on Soil and Snow Mechanics Technical Memorandum 76, 231 p.
- Browna, J.S., 1926, The Nixon Fork country: U.S. Geological Survey Bulletin 783-D, p. 97-144.
- Bruns, T.R., 1979, Late Cenozoic structure of the continental margin, northern Gulf of Alaska, *in* Sisson, A., ed., The relationship of plate tectonics to Alaskan geology and resources (Proceedings, Alaska Geological Society Symposium, 6th, 1977, Anchorage): Anchorage, Alaska Geological Society, p.J1–J30.
- Bruns, T.R., 1982, Hydrocarbon resource report for proposed OCS lease sale 88; Southeastern Alaska, northern Gulf of Alaska, Cook Inlet, and Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 82–928, 133 p.
- Bruns, T.R., 1982, Structure and petroleum potential of the continental margin between Cross Sound and Icy Bay, northern Gulf of Alaska: U.S. Geological Survey Open-File Report 82–929, 63 p.
- Bruns, T.R., 1983, Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska: Geology, v.11, p. 718–721.
- Bruns, T.R., 1983, Structure and petroleum potential of the Yakutat segment of the northern Gulf of Alaska continental margin: U.S. Geological Survey Miscellaneous Field Studies Map MF–1480, 22 p., 3 sheets, scale 1:500,000.
- Bruns, T.R., 1985, Tectonics of the Yakutat block, an allochthonous terrane in the northern Gulf of Alaska: U.S. Geological Survey Open-File Report 85–13, 112 p.
- Bruns, T.R., and Carlson, P.R., 1987, Geology and petroleum potential of the southeast Alaska continental margin, 1987, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and petroleum potential of the continental margin of western North America and adjacent ocean basins—Beaufort Sea to Baja California: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, v. 6, p. 269–282.
- Bruns, T.R., and Keller, G., 1984, Reply to comment on "Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska": Geology, v. 12, p. 565–567.
- Bruns, T.R., and Plafker, G., 1982, Geology, structure, and petroleum potential of the southeastern Alaska and northern Gulf of Alaska continental margins, *in* Bruns, T.R., ed., Hydrocarbon resource report for proposed OCS leas sale 88; Southeastern Alaska, northern Gulf of Alaska, Cook Inlet, and Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 82–928, p. 11–52.
- Bruns, T.R., and Schwab, W.C., 1983, Structure maps and seismic stratigraphy of the Yakataga segment of the continental margin, northern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1424, 20 p., 4 sheets, scale 1:250,000.

- Bruns, T.R., and von Huene, R., 1977, Sedimentary basins on the Shumagin shelf, western Gulf of Alaska: Houston, American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc., 9th Annual Offshore Technology Conference Proceedings, v. 1, p. 41–50.
- Bruns, T.R., Fisher, M.A., Leinbach, W.J., Jr., and Miller, J.J., 1987, Regional structure of rocks beneath the coastal plain, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 249–254
- Bruns, T.R., Vallier, T.L., Pickthorn, L.B., and von Huene, R., 1987, Early Miocene calc-alkaline basalt dredged from the Shumagin margin, Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., The United States Geological Survey in Alaska: accomplishments during 1986: U.S. Geological Survey Circular 998, p. 143–146.
- Bruns, T.R., von Huene, R., and Culotta, R.D., 1987, Aleutman Trench, Shumagin segment, seismic section 104, *in* von Huene, R., ed., Seismic images of modern convergent margin tectonic structure: American Association of Petroleum Geologists Studies in Geology, no. 26, p. 14–21.
- Bruns, T.R., von Huene, R., Culotta, R.C., Lewis, S.D., and Ladd, J.W., 1987, Geology and petroleum potential of the Shumagin margin, Alaska, *in* Scholl, D.W., Grantz, A., and Vedder, J., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 6, p. 157–190.
- Bruns, T.R., von Huene, R., Culotta, R.D., and Lewis, S.D., 1985, Summary geologic report for the Shumagin Outer Continental Shelf (OCS) planning area, Alaska: U.S. Geological Survey Open-File Report 85–32, 58 p.
- Bruns, T.R., Atwood, T.J., and Childs, J.R., 1981, Free-air gravity anomaly map, Cross Sound to Icy Bay, northern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1306, scale 1:500,000.
- Bruns, T.R., Childs, J.R., and Atwood, T.J., 1981, Free-air gravity anomaly map, Dixon Entrance to Cross Sound, northern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1307, scale 1:500,000.
- Bruns, T.R., von Huene, R., Culotta, R.C., and Lewis, S.D., 1985, Summary geologic report for the Shumagin Outer Continental Shelf (OCS) planning area, Alaska: U.S. Geological Survey Open-File Report 85–32, 58 p.
- Bruynzeel, J.W., Guldenzopf, E.C., and Pickard, J.E., 1982, Petroleum exploration of NPRA, 1974-1981: Final report: Houston, Tx., Tetra-Tech, Inc., Report 8200, 3 v. available from U.S. National Geophysical Data Center, NOAA, Code E/GCIZ, 325 Broadway, Boulder, CO, 80303.
- Buckingham, M.L., 1987, Fluvial-deltaic sedimentation patterns of the Upper Cretaceous to Lower Tertiary Jago River Formation, Arctic National Wildlife Refuge (ANWR), northeastern Alaska, *in* Tailleur, I.L, and Weimer, Paul eds., Alaska North Slope Geology: Alaska Geological Society and Pacific Section, Society of Economic Paleontologists and Mineralogists, Anchorage, Alaska, and Bakersfield, Calif., no. 50, vols. 1 and 2, p.529–540.
- Buddington, A.F., and Chapin, T., 1929, Geology and mineral deposits of southeastern Alaska: U.S. Geological Survey Bulletin 800, 398 p.
- Budnick, R.T., 1974, The geologic history of the Valdez Group, Kenai Peninsula, Alaska—Deposition and deformation at a Late Cretaceous consumptive plate margin: Los Angeles, University of California, Ph.D. dissertation, 139 p.
- Buffington, E.C., 1973, The Aleutian-Kamchatka trench convergence and investigations of lithospheric plate interactions in the light of modern geotectonic theories: Los Angeles, University of Southern California, Ph.D. dissertation, 350 p.
- Buland, Ray, and Taggart, James, 1981, A mantle wave magnitude for the St. Elias, Alaska, earthquake of 28 February 1979, Bulletin of the Seismological Society of America, v. 71, p. 1143–1159.
- Bultman, T.R., 1979, Geology and tectonic history of the Whitehorse trough west of Atlin, British Columbia: New Haven, Connecticut, Yale University, Ph.D. dissertation, 284 p.
- Bultman, T.R., 1972, The Denali Fault (Hines Creek Strand) near the Nenana River, Alaska: Madison, Wisconsin, University of Wisconsin, Master's. thesis, 161 p., 3 sheets, scale 1:63,360.
- Bundtzen, T.K., 1980, Geological guides to heavy mineral placers, *in* Second Annual Conference on Alaska Placer Mining: Mineral Industry Research Laboratory Report 46, p. 21–45.
- Bundtzen, T.K., 1980, Multiple glaciation in the Beaver Mountains, western interior Alaska, *in* Short notes on Alaskan geology, 1979-80: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 63, p. 11–18.
- Bundtzen, T.K., 1981, Geology and mineral deposits of the Kantishna Hills, Mt. McKinley quadrangle, Alaska: Fairbanks, University of Alaska, Master's thesis, 237 p., 4 sheets, scale 1:63,360.
- Bundtzen, T.K., 1982, Bedrock geology of the Fairbanks mining district, western sector: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 155, 2 sheets, scale 1:24,000.

- Bundtzen, T.K., 1983, Geologic map of the Iditarod D-l quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 78, 1 sheet, scale 1:63,360.
- Bundtzen, T.K., 1983b Geologic map of the McGrath D-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 79, 1 sheet, scale 1:63,360.
- Bundtzen, T.K., and 6 others, 1984, Alaska's mineral industry, 1983: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 33, 56 p.
- Bundtzen, T.K., and Gilbert, W.G., 1983, Outline of geology and mineral resources of upper Kuskokwin region, Alaska, *in* Proceedings of the 1982 Symposium, Western Alaska Geology and Resource Potential, Anchorage, Alaska: Journal of the Alaska Geological Society, v. 3, p. 101–117.
- Bundtzen, T.K., and Laird, G.M., 1980, Preliminary geology of the McGrath-Upper Innoko River area, western interior Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Alaska Open-File Report 134, 35 p., 2 sheet, scale 1:63,360.
- Bundtzen, T.K., and Laird, G.M., 1982, Geologic map of the Iditarod D-2 and eastern D-3 quadrangles, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 72, 26 p., 1 sheet, scale 1:63,360.
- Bundtzen, T.K., and Laird, G.M., 1983, Geologic map of the McGrath D-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geological Report 79, 13 p., 1 sheet, scale 1:63,360.
- Bundtzen, T.K., and Laird, G.M., 1983, Geologic map of the Iditarod D-1 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 78, 1 sheet, scale 1:63,360.
- Bundtzen, T.K., and Laird, G.M., 1983, Geologic map of the Iditarod D-l quadrangle, Alaska: Fairbanks, Alaska Geological and Geophysical Survey Professional Report 78, scale 1:63,360.
- Bundtzen, T.K., and Laird, G.M., 1983, Preliminary geologic map of the northeastern Iditarod C-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–13, 6 p., 1 sheet, scale 1:63,360.
- Bundtzen, T.K., and Reger, R.D., 1977, The Richardson lineament–a structural control for gold deposits in the Richardson mining district, Interior Alaska, *in* Short Notes on Alaskan Geology–1977: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 55, p. 29–34.
- Bundtzen, T.K., and Swanson, S.E., 1984, Geology and petrology of igneous rocks in Innoko River area, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, no. 5, p. 273.
- Bundtzen, T.K., and Turner, D.L., 1979, Geochronology of metamorphic and igneous rocks in the Kantishna Hills, Mount McKinley quadrangle, Alaska, *in* Short notes on Alaskan Geology, 1978: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 61, p. 25–30.
- Bundtzen, T.K., Eakins, G.R., Green, C.B., and Lueck, L.L., 1986, Alaska's mineral industry, 1985: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 39, 68 p.
- Bundtzen, T.K., Gilbert, W.G., and Blodgett, R.B., 1979, The Chilikadrotna Greenstone, an Upper Silurian metavolcanic sequence in the central Lake Clark quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 61, p. 31–35.
- Bundtzen, T.K., Gilbert, W.G., Kline, J.T., and Solie, D.N., 1985, Summary of the Geologic Mapping Program by the Division of Geological and Geophysical Surveys (DGGS) in the McGrath quadrangle, Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, no. 4, p. 658.
- Bundtzen, T.K., Kline, J.T., and Clough, J.G., 1982, Preliminary geology of McGrath B-2 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 149, 1 sheet, scale 1:40,000.
- Bundtzen, T.K., Kline, J.T., Solie, D.N., and Clough, J.G., 1985, Geologic map of the McGrath B-2 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 85-14, 1 sheet, scale 1:40,000.
- Bundtzen, T.K., Miller, M.L., Laird, G.M., and Kline, J.T., 1985, Geology of heavy mineral placer deposits in the Iditarod and Innoko precincts, western Alaska, *in* Madonna, J.A., ed., 7th Annual Conference on Alaska Placer Mining: Alaska Prospectors Publication Company, p. 35–41.
- Bundtzen, T.K., Swainbank, R.C., Deggen, J.R., and Moore, J.L., 1990, Alaska's Mineral Industry, 1989: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 44, 100 p.
- Bunker, C.M., Hedge, C.E., and Sainsbury, C.L., 1979, Radioelement concentrations and preliminary radiometric ages of rocks of the Kigluaik Mountains, Seward Peninsula, Alaska: U.S. Geological Survey Professional Paper 1129–C, 12 p.

- Bunker, C.M., Hedge, C.E., and Sainsbury, C.L., 1977, Radioelement concentrations and preliminary radiometric ages of rocks of the Kigluaik Mountains, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–735, 36 p.
- Bunker, C.M., Hedge, C.E., and Sainsbury, C.L., 1980, Radioelement concentrations and preliminary radiometric ages of rocks of the Kigluaik Mountains, Seward Peninsula, Alaska, *in* Shorter Contributions to Geochemistry, 1979: U.S. Geological Survey Professional Paper 1129-A-I, p. C1–C12.
- Burack, A.C., 1983, Geology along the Pinnell Mountain Trail, Circle quadrangle, Alaska: Durham, University of New Hampshire, Master's thesis, 98 p.
- Burchfiel, B.C., Eaton, G.P., Lipman, P.W., and Smith, R.B., 1987, The Cordilleran orogen: Conterminous U.S. sector, *in* Palmer, A.R., ed., Perspectives in regional geological synthesis: Geological Society of America DNAG Special Publication 1, p. 91–98.
- Burk, C.A., 1965, Geology of the Alaska Peninsula-island arc and continental margin: Geological Society of America Memoir 99, 250 p., 2 sheets, scales 1:250,000 and 1:500,000.
- Burkhard, Nardia, Bruns, T.R., McHendrie, Craig, and Ruppel, B.D., 1980, Free-air gravity map, eastern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1172, 1 sheet, scale 1:500,000.
- Burkhard, Nardia, von Huene, Roland, McHendrie, Craig, Ruppel, B.D., and Bruns, T.R., 1980, Free-air anomaly map, western Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1173, 1 sheet, scale 1:500,000.
- Burlin, Yu. K., Dontsov, V.V., and Pastukhova, T.N., 1974, Future direction of oil and gas exploration in northeastern U.S.S.R.: Geologiya Nefti Gaza, no. 5, p. 17–22 (in Russian) (1975 summary, *in* Petroleum Geology, v. 12, no. 5, p. 222–223).
- Burnham, C.W., 1979, The importance of volatile constituents, *in* Yoder, H.S., ed., The evolution of the igneous rocks: New Jersey, Princeton University, Press, p. 439–482.
- Burnham, C.W., 1980, The nature of multicomponent silica melts, *in*, Richard, D.T. and Wickman, F.E., eds., Chemistry and geochemistry of solutions at high temperatures and pressures: Pergamon Press, Physics and Chemistry of the Earth, v. 13 and 14, p. 197–229.
- Burns, L.E., 1982, Gravity and aeromagnetic modeling of a large gabbroic body near the Border Ranges fault, southern Alaska: U.S. Geological Survey Open-File Report 82–460, 3 sheets, 66 p.
- Burns, L.E., 1983, The Border Ranges ultramafic and mafic complex; Plutonic core of an intraoceanic island arc: Stanford, Cailf., Stanford University, Ph.D. dissertation, 2 sheets, scale 1:250,000, 151 p.
- Burns, L.E., 1985, The Border Ranges ultramafic and mafic complex, southcentral Alaska: Cumulate fractionates of island-arc volcanics: Canadian Journal of Earth Sciences, v. 22, p. 1020–1038.
- Burns, L.E., 1992, Ophiolitic complexes and associated rocks near the Border Ranges fault zone, south-central Alaska: U.S. Geological Survey Open-File Report 92–20E, 7 p.
- Burns, L.E., 1994, Geology of part of the Nelchina River Gabbronorite and associated rocks: U.S. Geological Survey Bulletin 2058, .
- Burns, L.E., Little, T.A., Newberry, R.J., Decker, J.E., and Pessel, G.H., 1983, Preliminary geologic map of parts of the Anchorage C-2, C-3, D-2, and D-3 quadrangles, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–10, 3 sheets, scale 1:25,000.
- Burns, L.E., Newberry, R.J., and Reifenstuhl, R.R., 1987, Intrusive rocks of the Lime Peak-Mt. Prindle area, *in* Smith, T.E., Pessell, G.H., and Wiltse, M.A., eds.,1987, Mineral assessment of the Lime Peak-Mt. Prindle area, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, p. 3–1 to 3–78.
- Burns, L.E., and 6 others, 1991, Geology of the northern Chugach Mountains, south-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 94, 63 p.
- Burton, P.J., Warner, J.D., and Barker, J.C., 1985, Reconnaissance investigation of tin occurrences at Rocky Mountain (Lime Peak), east-central Alaska: U.S. Bureau of Mines Open-File Report 31–85, 44 p.
- Burton, R., Brew, D.A., and Gray, S., 1992, Mount Edgecumbe volcanic field, Kruzof Island, southeastern Alaska (video): Juneau, Alaska, Rain Country Series Program 806, KTOO-TV Videos, 11 minutes.
- Butler, R.F., Gehrels, G.E., McClelland, W.C., May, S.R., and Klepacki, D., 1989, Discordant paleomagnetic poles from the Canadian Coast Plutonic Complex: Regional tilt rather than large-scale displacement?: Geology, v. 17, p. 691–694.
- Byers, F.M., Jr., 1957, Tungsten deposits in the Fairbanks district, Alaska: U.S. Geological Survey Bulletin 1024–1, p. 179–215.

- Byers, F.M., Jr, 1959, Geology of Umnak and Bogoslof Islands, Aleutian Islands, Alaska, *in* Investigations of Alaskan Volcanoes: U.S. Geological Survey Bulletin 1028–L, p. L267–L369.
- Byers, F.M., Jr., 1961, Petrology of three volcanic suites, Umnak and Bogoslof Islands, Aleutian Islands, Alaska: Geological Society of America Bulletin, v. 72, p. 93–128.
- Byers, F.M., and Barth, T., 1953, Volcanic activity on Akun and Akutan Islands, Alaska: Proceedings of the 7th Pacific Science Conference, New Zealand, v. 2, p. 382–397.
- Byrne, T., 1982, Structural evolution of coherent terranes in the Ghost Rocks Formation, Kodiak Island, Alaska, *in* Leggett, J.K., ed., Trench and forearc sedimentation and tectonics in modern and ancient subduction zones: Geological Society of London Special Publication 10, p. 229–242.
- Byrne, T., 1984, Early deformation in melange terranes of the Ghost Rocks Formation, Kodiak Islands, Alaska, *in* Raymond, L.A., ed., Melanges: Their nature, origin, and significance: Boulder, Colo., Geological Society of America Special Paper 198, p. 21–51.
- Byrne, T., 1986, Eocene underplating along the Kodiak Shelf, Alaska; Implications and regional correlations: Tectonics, v. 5, p. 403–421.
- Cady, J.W., 1978, Aeromagnetic map and interpretation, Chandalar quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–878C, 1 sheet, scale 1:250,000.
- Cady, J.W., 1978, Aeromagnetic map and interpretation, of the Philip Smith Mountains quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–879–E, 1 sheet, scale 1:250,000.
- Cady, J.W., 1986, Geophysics of the Yukon Koyukuk province: U.S. Geological Survey Circular 978, p. 21–25.
- Cady, J.W., 1987, Preliminary geophysical interpretation of the oceanic terranes of interior and western Alaska; Evidence of thick crust of intermediate density: American Geophysical Union Geodynamic Series v. 19, p. 301–305.
- Cady, J.W., 1989, Geologic implications of topographic gravity, and aeromagnetic data in the northern Yukon Koyukuk province and its borderlands: Journal of Geophysical Research, v. 94, no. B11, p. 15,821–15,841.
- Cady, J.W., and Barnes, D.F., 1983, Complete Bouguer gravity map of Circle quadrangle, Alaska; Folio of the Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 83–170D, 1 sheet, scale 1:250,000.
- Cady, J.W., and Morin, R.L., 1990, Aeromagnetic and gravity data, *in* Weber, F.R., McCammon, R.B., Rinehart, C.D., and Light, T.D., Mineral resources of the White Mountain National Recreation Area, east-central Alaska: U.S. Geological Survey Open-File Report 88–284, [in press].
- Cady, J.W., and Weber, F.R., 1983, Aeromagnetic map and interpretation of magnetic and gravity data, Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 83–170–C, 29 p., 1 sheet, scale 1:250,000.
- Cady, W.M., Wallace, R.E., Hoare, J.M., and Webber, E.J., 1955, The central Kuskokwim region, Alaska: U.S. Geological Survey Professional Paper 268, 13 p., 1 sheet, scale 1:250,000.
- Cairnes, D.D., 1914, The Yukon-Alaska international boundary, between Porcupine and Yukon Rivers: Geological Survey of Canada Memoir 67, 161 p.
- Calderwood, K.W., and Fackler, W.C., 1972, Proposed stratigraphic nomenclature for Kenai Broup, Cook Inlet basin, Alaska: American Association of Petroleum Geologists Bulletin, v. 56, no. 4, p. 739–754.
- Calderwood, K. W., and Wilson, T., 1987, Southern Alaska region: Tulsa, Oklahoma, The American Association of Petroleum Geologists, Correlation of stratigraphic units of North America (COSUNA) project.
- Calkin, P.E., 1988, Holocene glaciation of Alaska (and adjoining Yukon Territory, Canada): Quaternary Science Reviews, v. 7, p. 159–184.
- Callahan, J.E., 1970, Geologic reconnaissance of a possible powersite at Takatz Creek, southeastern Alaska: U.S. Geological Survey Bulletin 1211–D, 18 p.
- Callahan, J.E., and Sloan, E.G., 1978, Preliminary report on analyses of Cretaceous coals from northwestern Alaska: U.S. Geological Survey Open-File Report 78–319, 1 plate, 29 p.
- Camber, W., and Mull, C.G., 1987, Preliminary bedrock geologic map of part of the Demarcation Point A-2 and A-3 quadrangles, Bathtub Ridge, northeast Alaska: Fairbanks Divisions of Mining and Geological and Geophysical Surveys Public Data File 86–86c, scale 1:25,000, 3 sheets, 10 p.
- Cameron, B.E.B., and Tipper, H.W., 1985, Jurassic stratigraphy of the Queen Charlotte Islands, British Columbia: Geological Survey of Canada Bulletin 365, 49 p.

- Cameron, C.P., and Stone, D.B., 1970, Outline geology of the Aleutian Islands with paleomagnetic data from Shemya and Adak Islands–National Science Foundation Grant GA-1216, Science Report: Fairbanks, Alaska, University of Alaska, Geophysical Institute Report UAG R-213, 153 p.
- Campbell, D.L., and Barnes, D.F., 1985, Gravity and magnetic model of a part of the 1984 TACT line, Chugach Mountains and southern Copper River Basin, *in* Bartsch-Winkler, Susan, and Reed, K.M., eds., U.S. Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, 52–55.
- Campbell, D.L. and Nokleberg, W.J., 1986, Magnetic profile and model across northern Copper River basin, northwestern Gulkana quadrangle, Alaska, *in* Bartsch-Winkler, S., and Reed, K., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, 35–38 p.
- Campbell, R.B., and Dodds, C.J., 1975, Operation Saint Elias, Yukon Territory: *in* Report of Activities, Part A, Geological Survey of Canada Paper 75–1A, 51–53 p.
- Campbell, R.B., and Dodds, C.J., 1978, Operation Saint Elias, Yukon Territory, in Current Research, Part A: Geological Survey of Canada Paper 78–1A, p. 35–41.
- Campbell, R. B., and Dodds, C. J., 1982, Geology of s.w. Kluane Lake map area, Yukon Territory: Geological Survey of Canada Maps 115F and 115G, Open File 829, 1 sheet, scale 1:250,000.
- Campbell, R.B., and Dodds, C.J., 1982, Geology of the Mount St. Elias map area, Yukon Territory: Geological Survey of Canada Maps 115B and 115C, Open File 830, 1 sheet, scale 1:250,000.
- Campbell, R.B., and Dodds, C.J., 1983, Tatshenshini River map area: Geological Survey of Canada Open-File Report 926, 114 p.
- Campbell, R.B., and Dodds, C.J., 1985, Geology of S. W. Kluane Lake map area (I I5G & FE.1/2), Yukon Territory: Canadian Geological Survey Open-File 829, 2 sheets, scale 1:125,000.
- Campbell, R.B., and Dodds, C.J., 1985, Geology of the Mount St. Elias map area (115B and C [E1/2]): Canadian Geological Survey Open-File Report 830, scale 1:250,000.
- Campbell, R.H., 1967, Areal geology in the vicinity of the Chariot site, Lisburne Peninsula, northwest Alaska: U.S. Geological Survey Professional Paper 395, 71 p.
- Cantwell, J.C., 1887, A narrative account of the exploration of the Kowak [Kobuk] River, Alaska, *in* Healy, Capt. M.A., Report of the cruise of the Revenue Marine Steamer *Convin* in the Arctic Ocean in the year 1885: Washington, D.C., Treasury Department, 48–49 p.
- Cantwell, J.C., 1896, Ice-cliffs on the Kowak [Kobuk] River: National Geographic Magazine, v. 7, p. 345–346.
- Capps, S.R., 1912, The Bonnifield region, Alaska: U.S. Geological Survey Bulletin 501, 64 p.
- Capps, S.R., 1913, The Yentna district, Alaska: U.S. Geological Survey Bulletin 534, 13 plates, 75 p.
- Capps, S.R., 1915, An ancient volcanic eruption in the Upper Yukon Basin: U.S. Geological Survey Professional Paper 95–D, p. 59–64.
- Capps, S.R., 1916, The Chisana White River district, Alaska: U.S. Geological Survey Bulletin 630, 130 p.
- Capps, S.R., 1923, Recent investigations of petroleum in Alaska; the Cold Bay district: U.S. Geological Survey Bulletin 739–C, C77–C116 p.
- Capps, S.R., 1926, The Skwenta region: U.S. Geological Survey Bulletin 797, 67-98 p.
- Capps, S.R., 1927, Geology of the Upper Matanuska Valley, Alaska: U.S. Geological Survey Bulletin 791, 16 plates, 92 p.
- Capps, S.R., 1932, Glaciation in Alaska, *in* Shorter contributions to general geology, 1931: U.S. Geological Survey Professional Paper 170, p. 1–8.
- Capps, S.R., 1935, The southern Alaska Range: U.S. Geological Survey Bulletin 862, 8 plates, 101 p.
- Capps, S.R., 1940, Geology of the Alaska Railroad region: U.S. Geological Survey Bulletin 907, 9 plates, 201 p.
- Carden, J.R., 1978, The comparative petrology of blueschists and greenschists in the Brooks Range and Kodiak-Seldovia schist belts: Fairbanks, University of Alaska, Ph.D. dissertation, 242 p.
- Carden, J.R., and Decker, J.E., 1977, Tectonic significance of the Knik River schist terrane, south-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 55, p. 7–9.
- Carden, J.R., Connelly, W., Forbes, R.B., and Turner, D.L., 1977, Blueschists of the Kodiak Islands, Alaska an extension of the Seldovia schist terrane: Geology, v. 5, p. 529–533.

- Carey, S.W., 1955, The orocline hypothesis in geotectonics: Proceedings of the Royal Society of Tasmania, v. 89, p. 255–288.
- Carey, S.W., 1958, The tectonic approach to continental drift, *in* Carey, S.W., convenor, Continental drift—A symposium (1956): Hobart, Australia, Tasmania University Geology Department, p. 177–355.
- Carlson, C., 1985, Large-scale south-dipping, low-angle normal faults in the southern Brooks Range, Alaska: EOS (Transactions of the American Geophysical Union), v. 66, no. 46, p. 1074.
- Carlson, C., and Wallace, W.K., 1983, The Tlikakila complex; A disrupted terrane in the southwestern Alaska Range [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 406.
- Carlson, P.R., Bruns, T.R., and Molnia, B.F., 1975, Submarine slides and nearsurface faults, northern Gulf of Alaska: U.S. Geological Survey Open-File Report 75–504, 1 sheet, scale 1:500,000.
- Carlson, P.R., Bruns, T.R., Molnia, B.F., and Schwab, W.C., 1982, Submarine valleys in the northeastern Gulf of Alaska; Characteristics and probable origin: Marine Geology, v. 47, p 217–242.
- Carlson, P.R., 1989, Seismic reflection characteristics of glacial and glaciomarine sediment in the Gulf of Alaska and adjacent fjords: Marine Geology, v. 85, p. 391–416.
- Carlson, P.R. and Karl, H.A., 1981, High resolution seismic reflection profiles: Navarin Basin province, Northern Bering Sea, 1980: U.S. Geological Survey Open-File Report 81–1221, 4 p.
- Carlson, P.R. and Karl, H.A., 1981, Seafloor geologic hazards, sedimentology and bathymetry; Navarin Basin province, Northwestern Bering Sea: U.S. Geological Survey Open-File Report 81–1217, 151 p.
- Carlson, P.R., Molnia, B.F., and Wheeler, M.C., 1980, Seafloor geologic hazards in OCS lease area 55, eastern Gulf of Alaska: Proceedings, 12th Offshore Technology Conference Houston, Tex., v. 1, p. 5923–603.
- Carlson, P.R., Plafker, G., Bruns, T.R., and Levy, W.P., 1979, Seaward extension of the Fairweather fault: U.S. Geological Survey Circular 804–B, p. B135–B139.
- Carlson, P.R., Plafker, George, and Bruns, T.R., 1985, Map and selected seismic profiles of the seaward extension of the Fairweather fault, eastern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1722, 2 sheets, scale 1:500,000.
- Carman, G.J., and Hardwick, P., 1983, Geology and regional setting of the Kuparuk oil field, Alaska: American Association of Petroleum Geologists Bulletin, v. 67, no. 6, p. 1014–1031.
- Carney, T.R., and Krissek, L.A., 1986, The late Pliocene and Pleistocene record of ice-rafting at DSDP site 580, northwest Pacific; A comparison of coarse sand abundance and mass accumulation rate of ice-rafted detritus [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 558.
- Carr, W.J., Quinlavan, W.D., and Gard, L.M., 1970, Age and stratigraphic relations of Amchitka, Banjo Point, and Chitka Point Formations, Amchitka Island, Aleutian Islands, Alaska, *in* Cohee, G.V., Bates, R.G., and Wright, W.D., eds., Changes in Stratigraphic nomenclature by the U.S. Geological Survey, 1969: U.S. Geological Survey Bulletin 1324–A, p. A16–A22.
- Carroll, M.R., and Rutherford, M.J., 1987, The experimental stability of igneous anhydrite; Experimental results and implications for sulfur behavior in the 1982 El Chichon trachyandesite and other evolved magmas: Journal of Petrology, v. 28, p. 781–801.
- Carroll, M.R., and Rutherford, M.J., 1988, Sulfur speciation in hydrous experimental glasses of varying oxidation state; Results from measured wavelength shifts of sulfur X-rays: American Mineralogist, v. 73, p. 845–849.
- Carswell, D.A., and Gibb, F.G.F., 1980, The equilibration conditions and petrogenesis of European crustal garnet Iherzolites: Lithos, v. 13, p. 19–29.
- Carter, C., and Laufeld, S., 1975, Ordovician and Silurian fossils in well cores from North Slope of Alaska: American Association of Petroleum Geologists Bulletin, v. 59, p. 457–464.
- Carter, C., and Tailleur, I.L., 1984, Ordovician graptolites from the Baird Mountains, western Brooks Range, Alaska: Journal of Paleontology, v. 58, p. 40–57.
- Carter, L.D., 1980, Tertiary tillites(?) on the northeast flank of Granite Mountain, central Alaska Range, *in* Short notes on Alaska geology, 1979-80: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 63, p. 23–27.
- Carter, L.D., 1983, Engineering-geologic maps of northern Alaska, Teshekpuk quadrangle: U.S. Geological Survey Open-File Report 83–634, 2 Sheets, scale 1:250,000.

- Carter, L.D., 1983, Cenozoic glacial and glaciomarine deposits of the central North Slope, Alaska, *in* Thorson, R. M., and Hamilton, T. D., eds., Glaciation in Alaska; Extended abstracts from a workshop: University of Alaska Museum Occasional Paper 2, p. 17–21.
- Carter, L.D., 1985, Engineering-geologic maps of northern Alaska, Harrison Bay quadrangle: U.S. Geological Survey Open-File Report 85–256, 47 p., 2 sheets, scale 1:250,000.
- Carter, L.D., and Ager, T.A., 1989, Late Pleistocene spruce (*Picea*) in northern interior basins of Alaska and the Yukon; Evidence from marine deposits in northern Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Canada and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 11–14.
- Carter, L.D., and Galloway, J.P., 1984, Lacustrine and eolian deposits of Wisconsin age at Riverside Bluff in the upper Tanana River valley, Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 66–68.
- Carter, L.D., and Whelan, J.F., 1991, Isotopic evidence for restricted arctic sea ice during a late Pleistocene warm period Implications for sea ice during future climatic warming at high latitudes [abs.]: Geological Society of America Abstracts with Programs, v. 23, p. A237.
- Carter, L.D., Brigham-Grette, J., and Hopkins, D.M., 1986, Late Cenozoic marine transgressions of the Alaskan Arctic Coastal Plain, *in* Heginbottom, J.A., and Vincent, J.S., eds., Correlation of Quaternary deposits and events around the margin of the Beaufort Sea: Geological Survey of Canada Open File Report 1237, p. 21–26.
- Carter, L.D., Brigham-Grette, J., Marincovich, L., Jr., and Hillhouse, J.W., 1986, Late Cenozoic Arctic Ocean sea ice and terrestrial paleoclimate: Geology, v. 14, p. 675–678.
- Carter, L.D., Brouwers, E.M., and Marincovich, L., Jr., 1988, Nearshore marine environments of the Alaskan Beaufort Sea during deposition of the Flaxman Member of the Gubik Formation, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 27–30.
- Carter, L.D., Heginbottom, J.A., and Woo, M., 1987, Arctic lowlands, *in* Graf, W.L., ed., Geomorphic systems of North America: Boulder, Colo., Geological Society of America, Centennial Special Volume 2, p. 583–628.
- Carter, L.D., Repenning, C.A., Marincovich, L.N., Hazel, J.E., Hopkins, D.M., McDougall, Kristin, and Naeser, C.W., 1977, Gubik and pre-Gubik Cenozoic deposits along the Colville River near Ocean Point, North Slope, Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B12–B14.
- Case, J.D., Barnes, D.F., Detterman, R.L., Morin, R.L., and Sikora, R.F., 1981, Gravity anomaly and interpretation map of the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1053–J, 5 p., 1 plate, scale 1:250,000.
- Case, J.E., Barnes, D.F., Plafker, G., and Robbins, S.L., 1966, Regional gravity survey of Prince William Sound: U.S. Geological Survey Professional Paper 543–C, 12 p.
- Case, J.E., and MacKevett, E.M., Jr., 1976, Aeromagnetic map and geologic interpretation of aeromagnetic map, McCarthy quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–773–D, scale 1:250,000.
- Case, J.E., and Tysdal, R.G., 1979, Geologic interpretation of aeromagnetic map of the Seward and Blying Sound quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–880D, 2 sheets, scale 1:250,000.
- Case, J.E., Burns, L.E., and Winkler, G.R., 1986, Maps showing aeromagnetic survey and geologic interpretation of the Valdez quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1714. 2 sheets, scale 1:250,000.
- Case, J.E., Cox, D.P., Detra, D., Detterman, R.L., and Wilson, F.H., 1981, Geologic interpretation of aeromagnetic map of the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1053–J, scale 1:250,000.
- Case, J.E., Cox, D.P., Detra, D.E., Detterman, R.L., and Wilson, F.H., 1981, Maps showing aeromagnetic survey and geologic interpretation of the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1053–B, scale 1:250,000.
- Case, J.E., Sikora, R.F., Tysdal, R.G., Barnes, D.F., and Morin, R.L., 1979, Geologic interpretation of the gravity anomaly map of the Seward and Blying Sound quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–880–C, 1 sheet, scale 1:250,000.

- Case, J.E., Tysdal, R.G., Hillhouse, J.W., and Grommé, C.S., 1979, Geologic interpretation of aeromagnetic map of the Seward and Blying Souund quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–880–D, scale 1:250,000.
- Causse, C., and Vincent, J.S., 1989, Th-U disequilibrium dating of Middle and Late Pleistocene wood and shells from Banks and Victoria Islands, Arctic Canada: Canadian Journal of Earth Sciences, v. 26, p. 2718–2723.
- Cecile, M.P., 1982, The lower Paleozoic Misty Creek embayment, Selwyn Basin, Yukon and Northeast Territories, with a paleontologic index by W.H. Fritz, B.S. Norford, and R.S. Tipnis: Geological Survey of Canada Bulletin 335, 78 p., 1 sheet, scale 1:500,000.
- Cecile, M.P., and Harrison, J.C., 1987, Review of the geology of Wrangel Island, Chukchi and east Siberian Sea, far northeastern Soviet Union: Geological Survey of Canada Open-File Report 1955, 109 p.
- Chapin, T., 1914, Lode mining near Fairbanks: U.S. Geological Survey Bulletin 592-J, p. 321-355.
- Chapin, T., 1919, Mining in the Fairbanks district: U.S. Geological Survey Bulletin 692–F, p. 321–327.
- Chapin, T., 1920, Mining developments in the Matanuska Coal Field: U.S. Geological Survey Bulletin 712, p. 131–167, plates 4–6.
- Chapman, R.M., 1974, Metamorphic rock sequence between Rampart and Tanana dated: U.S. Geological Survey Circular 700, p. 42.
- Chapman, R.M., and Sable, E.G., 1960, Geology of the Utukok-Corwin region, northwestern Alaska: U.S. Geological Survey Professional Paper 303–C, 167 p.
- Chapman, R.M., and Yeend, W., 1981, Geologic reconnaissance of east half of Kantishna River quadrangle and adjacent areas, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823B, p. B30–B32.
- Chapman, R.M., Churkin, M., Jr., Carter, C., and Trexler, J.H., Jr., 1981 Ordovician graptolites and early Paleozoic radiolarians in the Lake Minchumina area date a regional shale and chert, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823B, p. B32–B33.
- Chapman, R.M., Detterman, R.L., and Mangus, M.D., 1964, Geology of the Killik-Etivluk rivers region, Alaska: U.S. Geological Survey Professional Paper 303–F, p. 325–407.
- Chapman, R.M., Patton, W.W., Jr., and Moll, E.J., 1982, Preliminary summary of the geology of the eastern part of the Ophir quadrangle, Alaska: U.S. Geological Survey Circular 844, p. 70–73.
- Chapman, R.M., Patton, W.W., Jr., and Moll, E.J., 1985, Reconnaissance geologic map of the Ophir quadrangle, Alaska: U.S. Geological Survey Open-File Report 85–203, 19 p., scale 1:250,000.
- Chapman, R.M., Trexler, J.H., Jr., Churkin, M., Jr., and Weber, F.R., 1985, New concepts of the Mesozoic flysch belt in east-central Alaska, *in* BartschWinkler, S., and Reed, K.M., eds., The U.S. Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 29–32.
- Chapman, R.M., Weber, F.R., and Taber, B., 1971, Preliminary geologic map of the Livengood quadrangle, Alaska: U.S. Geological Survey Open-File Report 71–66, 2 sheets, scale 1:250,000.
- Chapman, R.M., Weber, F.R., Churkin, M., Jr., and Carter, C., 1980, The Livengood Dome Chert; a new Ordovician formation in central Alaska and its relevance to displacement on the Tintina fault, *in* Shorter contributions to stratigraphy and structural geology, 1979: U.S. Geological Survey Professional Paper 1126–F, p. F1–F13.
- Chapman, R.M., Weber, F.R., and Taber, B., 1971, Preliminary geologic map of the Livengood quadrangle, Alaska: U.S. Geological Survey Open-File Map [71–66], 2 sheets, scale 1:250,000.
- Chapman, R.M., Yeend, W.E., and Patton, W.W., Jr., 1975, Preliminary reconnaissance geologic map of the western half of the Kantishna River quadrangle, Alaska: U.S. Geological Survey Open-File Report 75–351, scale 1:250,000.
- Chapman, R.M., Yeend, W.E., Brosgé, W.P., and Reiser, H.N., 1982, Reconnaissance geologic map of the Tanana quadrangle, Alaska: U.S. Geological Survey Open-File Report 82–734, 20 p., scale 1:250,000.
- Chappel, B.W., and White, A.J.R., 1974, Two contrasting granite types: Pacific Geology, no. 8, p. 173-174.
- Childs, J.R., Cooper, A.K., Wright, A.W., 1981, Residual magnetic map of Umnak Plateau region, southeastern Bering Sea: U.S. Geological Survey Geophysical Investigations Map GP–939, scale 1:1,000,000.
- Childs, J.R., Magistrale, H.W., and Cooper, A.K., 1985, Free air gravity anomaly map of the Bering Sea: U.S. Geological Survey Miscellaneous Field Studies Map MF–1728, 1 sheet, scale 1:250,000.

- Chinnery, M.A., 1965, The vertical displacements associated with transcurrent faulting: Journal of Geophysical Research, v. 70, no. 18, p. 4627–4632.
- Chipp, E.R., 1970, Geology and geochemistry of the Chandalar area, Brooks Range, Alaska: Fairbanks Alaska Division of Mines and Geology Report 42, 39 p., scale 1:36,206.
- Chisholm, W. A., 1985, Comment *on* "Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska": Geology, v. 13, p. 87.
- Christiansen, R.L., and Lipman, P.W., 1972, Cenozoic volcanism and plate tectonic evolution of the western United States; Part 2 Late Cenozoic: Philosophical Transactions of the Royal Society of London series A, v. 271, p. 249–284.
- Christie, R.L., 1957, Geology of the Bennett, Cassiar district, British Columbia: Canada Department of Mines and Technical Surveys Map 19–1957, 1 sheet, scale 1:253,440.
- Christie, R.L., 1957, 1959, Geology of the plutonic rocks of the Coast Mountains in the vicinity of Bennett, British Columbia: Toronto, Canada, University of Toronto, Ph.D. dissertation, 182 p.
- Christopher, P.A., and Carter, N.C., 1976, Metallogeny and metallogenic epochs for porphyry mineral deposits in the Canadian Cordillera: Canadian Institute of Mineralogy Special Volume 15, p. 64–71.
- Churkin, M., Jr., 1975, Basement rocks of Barrow arch, Alaska, and circum-Arctic Paleozoic mobile belt: American Association of Petroleum Geologists Bulletin, v. 59, p. 451–456.
- Churkin, M., Jr., and Brabb, E.E., 1965, Ordovician, Silurian, and Devonian biostratigraphy of east-central Alaska: American Association of Petroleum Geologists Bulletin, v. 49, no. 2, p. 172–185.
- Churkin, M., Jr., and Brabb, E.E., 1965, Occurrence and stratigraphic significance of Oldhamia, a Cambrian trace fossil, in east-central Alaska: U.S. Geological Survey Professional Paper 525–D, p. D120–D124.
- Churkin, M., Jr., and Brabb, E.E., 1968, Devonian rocks of the Yukon-Porcupine Rivers area and their tectonic relation to other Devonian sequences in Alaska, *in* Proceedings of the International Symposium on the Devonian System, v. 2: Calgary, Alberta Society of Petroleum Geologists, p. 227–258.
- Churkin, M., Jr., and Brabb, E.E., 1969, Prudhoe Bay discovery forces a look at other petroliferous areas: Oil and Gas Journal, v. 67, no. 5, p. 104–110.
- Churkin, M., Jr., and Carter, C., 1970, Devonian tentaculitids of east-central Alaska; Systematics and biostratigraphic significance: Journal of Paleontology, v. 44, no. 1, p. 51–68.
- Churkin, M., Jr., and Carter, C., 1979, Collision-deformed Paleozoic continental margin in Alaska; A foundation for microplate accretion [abs.]: Geological Society of America Abstracts with Programs, v. 11, p. 72.
- Churkin, M., Jr., and Eberlein, G.D., 1977, Ancient borderland terranes of the North American Cordillera; Correlation and microplate tectonics: Geological Society of America Bulletin, v. 88, p. 769–786.
- Churkin, M., Jr., and Trexler, J.H., Jr., 1980, Circum-Arctic plate accretion—Isolating part of a Pacific plate to form the nucleus of the Arctic basin: Earth and Planetary Science Letters, v. 49, p. 356–362.
- Churkin, M., Jr., and TrexIer, J.H., Jr., 1981, Continental plates and accreted oceanic terranes in the Arctic, *in* Nairn, A.E.M., Churkin, M., Jr., and Stehli, F.G., eds., The ocean basin and margins, v. 5, The Arctic Ocean: New York, Plenum Publishing, p. 1–20
- Churkin, M., Jr., Foster, H.L., Chapman, R.M., and Weber, F.R., 1982, Terranes and suture zones in east-central Alaska: Journal of Geophysical Research, v. 87, p. 3718–3730.
- Churkin, M., Jr., Nokleberg, W.J., and Huie, C., 1979, Collision-deformed Paleozoic continental margin, western Brooks Range, Alaska: Geology, v.7, no. 8, p. 379–383.
- Churkin, M., Jr., Reed, B.L., Carter, C., and Winkler, G.R., 1977, Lower Paleozoic graptolitic section in the Terra Cotta Mountains, southern Alaska Range, Alaska, *in* Blean, K. M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B37–B37.
- Churkin, M., Jr., Wallace, W.K., Bundtzen, T.K., and Gilbert, W.G., 1984, Nixon Fork-Dillinger terranes; A dismembered Paleozoic craton margin in Alaska displaced from Yukon Territory [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 275.
- Churkin, Michael, Jr., and Eberlein, G.D., 1975, Geologic map of the Craig C-4 quadrangle, Alaska: U.S. Geological Survey Geological Quadrangle Map GQ-1169, 1 sheet, scale 1:63,360.
- Churkin, Michael, Jr., and Eberlein, G.D., 1977, Ancient borderland terranes of the North American Cordillera: correlation and microplate tectonics: Geological Society of America Bulletin, v. 88, p. 769–786.

- Churkin, Michael, Jr., Foster, H.L., Chapman, R.M., and Weber, F.R., 1982, Terranes and suture zones in east central Alaska: Journal of Geophysical Research, v. 87, no. B5, p. 3718–3730.
- Citron, G.P., 1980, The Hidden Bay Pluton, Alaska; Geochemistry, origin, and tectonic significance of Oligocene magmatic activity in the Aleutian Island arc: Ithaca, New York, Cornell University, Ph.D. dissertation, 240 p.
- Citron, G.P., Kay, R.W., Kay, S.M., Snee, L.W., and Sutter, J.F., 1980, Tectonic significance of early Oligocene plutonism on Adak Island, central Aleutian Islands, Alaska: Geology, v. 8, p. 375–379.
- Clague, D.A., 1981, Linear island and seamount chains, aseismic ridges, and intraplate volcanism; Results from DSDP: Society of Economic Paleontologists and Mineralogists Special Publication 32, p. 7–22.
- Clague, D.A., and Frey, F.A., 1982, Petrology and trace element geochemistry of the Honolulu Volcanics, Oahu; Implications for the oceanic mantle below Hawaii: Journal of Petrology, v. 23, p. 447–504.
- Clague, D.A., Dalrymple, G.B. and Moberly, R., 1975, Petrography and K-Ar ages of dredged volcanic rocks of the western Hawaiian Ridge and southern Emperor Seamount chain: Geological Society of America Bulletin, v. 86, p. 991–998.
- Clague, J.J., compiler, 1989, Quaternary geology of the Canadian Cordillera, *in* Fulton, R.J., ed., Quaternary geology of Canada and Greenland: Geological Survey of Canada, The Geology of North America, v. K–I, p. 15–96.
- Clague, J.J., 1979, The Denali Fault System in southwest Yukon Territory A geologic hazard? *in* Current Research, Part 1: Geological Survey Canada, Paper 79–1A, p. 169–178.
- Clark, A.L., and Greenwood, W.R., 1972, Petrographic evidence of volume increase related to serpentinization, Union Bay, Alaska: U.S. Geological Survey Professional Paper 800–C, p. C21–C27.
- Clark, D.W., 1966, Perspectives in the prehistory of Kodiak Island, Alaska: American Antiquities, v. 31, no. 3, p. 358–371.
- Clark, P.R., 1973, Transportation economics of coal resources of northern slope coal fields, Alaska: Fairbanks, University of Alaska Mineral Industry Research Laboratory Report 31, 134 p.
- Clark, S.H.B., 1972, The Wolverine complex; A newly discovered layered ultramafic body in the western Chugach Mountains, Alaska: U.S. Geological Survey Open-File Report 72–70, 10 p.
- Clark, S.H.B., 1972, Reconnaissance bedrock geologic map of the Chugach Mountains near Anchorage, Alaska: U.S. Geological Survey Field Studies Map MF–350, 70 p., 1 sheet, scale 1:250,000.
- Clark, S.H.B., 1973, The McHugh Complex of south-central Alaska: U.S. Geological Survey Bulletin 1372–D, p. Dl–D11.
- Clark, S.H.B., 1982, Reconnaissance bedrock geologic map of the Chugach Mountains near Anchorage, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–350, 70 p., scale 1:250,000.
- Clark, S.H.B., 1983, Reconnaissance geologic map of the Chugach Mountains in the Anchorage C-5 and C-6 quadrangles, Alaska: U.S. Geological Survey Open-File Report 83–336, 1 sheet, scale 1:63,360.
- Clark, S.H.B., and Bartsch, S.R., 1971, Reconnaissance geologic map and geochemical analyses of stream sediment and rock samples of the Anchorage B-7 quadrangle, Alaska: U.S. Geological Survey Open-File Report 71–71, 70 p., scale 1:63,360.
- Clark, S.H.B., and Foster, H.L., 1971, Geochemical and geological reconnaissance in the Seventymile River area, Alaska: U.S. Geological Survey Bulletin 1315, 21 p.
- Clark, S.H.B., Yount, M.E., and Bartsch, S.R., 1976, Reconnaissance geologic map and geochemical analyses of the Anchorage A-7 and A-8 quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–765, 3 sheets, scale 1:63,360.
- Clautice, K.H., 1980, Geological sampling and magnetic surveys of a tungsten occurrence, Bonanza Creek area, Hodzana Highlands, Alaska: U.S. Bureau of Mines Open-File Report 80–83, 80 p.
- Claypool, G.E., and Magoon, L.B., 1985, Comparison of oil-source rock correlation data for Alaskan North Slope; Techniques, results, and conclusions, *in* Magoon, L.B., and Claypool, G.E., eds., Alaska North Slope oil/rock correlation study: American Association of Petroleum Geologists Special Studies in Geology 20, p. 49–81.
- Claypool, G.E., and Magoon, L.B., 1988, Oil and gas source rocks in the National Petroleum Reserve in Alaska, *in* Gryc, G., ed., Geology of the National Petroleum Reserve in Alaska: U.S. Geological Survey Professional Paper 1399, 90 p.
- Claypool, G.E., Threlkeld, C.N., and Magoon, L.B., 1980, Biogenic and thermogenic origins of natural gas in Cook Inlet basin, Alaska: American Association of Petroleum Geologists Bulletin, v. 64, no. 8, p. 1131–1139.
- Clemens, J.D., and Wall, V.J., 1981, Origin and crystallization of some peraluminous (S-type) granitic magmas: Canadian Mineralogist, v. 19, p. 111–131.

- Clendenen, W.S., Sliter, W.V., and Byrne, T., 1992, Tectonic implications of the Albatross sedimentary sequence, Sitkinak Island, Alaska, *in* Bradley, D.C., and Ford, A.B., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1990: U.S. Geological Survey Bulletin 1999, p. 52–70.
- Clough, J.G., 1980, Fossil algae in Lower Devonian limestones, east-central Alaska, *in* Short notes on Alaskan geology, 1979-80: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 63, p. 19–21.
- Clough, J.G., and Blodgett, R.B., 1984, Lower Devonian basin to shelf carbonates in outcrop from the western Ogilvie Mountains, Alaska and Yukon Territory, *in* Eliuk, L.S., ed., Carbonates in subsurface and outcrop, 1984 Canadian Society of Petroleum Geologists Core Conference Manual: Calgary, Alberta, Canada, Canadian Society of Petroleum Geologists, p. 57–81.
- Clough, J.G., and Blodgett, R.B., 1985, Comparative study of the sedimentology and paleoecology of middle Paleozoic algal and coral-stromatoporoid reefs in Alaska: Papeete, Tahiti, 5th International Coral Reef Congress Proceedings, p. 593–598.
- Clough, J.G., and Blodgett, R.B., 1988, Silurian-Devonian algal reef mound complex of southwest Alaska, *in* Geldsetzer, H., and James, N.P., eds., Reefs, Canadian and adjacent areas: Canadian Society of Petroleum Geologists Memoir 13, p. 246–250.
- Clough, J.G., and Blodgett, R.B., 1989, Silurian-Devonian algal reef mound complex of southwest Alaska, *in* Geldsetzer, H.H.J., James, N.P., and Tebbutt, G.E., eds., Reefs, Canada and adjacent areas: Canadian Society of Petroleum Geologists Memoir 13, p. 404–407.
- Clough, J.G., Blodgett, R.B., and Smith, T.N., 1984, Middle Paleozoic subtidal to tidal nat carbonate sedimentation in southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 275.
- Clough, J.G., Blodgett, R.B., Imm, T.A., and Pavia, E.A., 1988, Depositional environments of Katakturuk Dolomite and Nanook Limestone, Arctic National Wildlife Refuge, Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 72, p. 172.
- Coats, R.R., 1947, Reconnaissance geology of some western Aleutian Islands: U.S. Geological Survey Alaskan Volcano Investigations, p. 95–105.
- Coats, R.R., 1950, Volcanic activity in the Aleutian arc: U.S. Geological Survey Bulletin 974-B, p. 35-49.
- Coats, R.R., 1952, Magmatic differentiation in Tertiary and Quaternary volcanic rocks from Adak and Kanaga Islands, Aleutian Islands, Alaska: Bulletin of the Geological Society of America, v. 63, p. 486-–514.
- Coats, R.R., 1953, Geology of Buldir Island, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 989–A, p. 1–25.
- Coats, R.R., 1956, Geology of northern Adak Island, Alaska: U.S. Geological Survey Bulletin 1028–C, p. 45–67.
- Coats, R.R., 1959, Geologic reconnaissance of Semisopochnoi Island, western Aleutian Islands, Alaska: Geological Survey Bulletin 1028–O, p. 477–519.
- Coats, R.R., 1962, Magma type and crustal structure in the Aleutian arc, *in* The crust of the Pacific basin: American Geophysical Union Geophysical Monograph 6, p. 92–109.
- Coats, R.R., and Marsh, B.D., 1984, Reconnaissance geology and petrology of northern Tanaga, Aleutian Islands, Alaska [abs.]* Geological Society of America Abstracts with Programs, v. 16, p. 474.
- Coats, R.R., Nelson, W.H., Lewis, R.Q., and Powers, H.A., 1961, Geologic reconnaissance of Kiska Island, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 1028-R, p. 563–581.
- Cobb, E.H., 1964, Placer gold occurrences in Alaska: U.S. Geological Survey Mineral Investigation Resources Map MR-38, scale 1:2,500,000.
- Cobb, E.H., 1973, Placer deposits of Alaska: U.S. Geological Survey Bulletin 1324, 213 p.
- Coe, R. S., Globerman, B.R., Plumley, P.W., and Thrupp, G.A., 1985, Paleomagnetic results from Alaska and their tectonic implications, *in* Howell, D.G., ed., Tectonostratigraphic terranes of the circum-Pacific region: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Sciences Series, v. 1, p. 85–108.
- Coe, R.S., and Thrupp, G.A., 1987, Tectonic implications of rotated paleomagnetic declinations in west-central Alaska [abs.]: Geological Society of America Abstracts with Programs v. 19, p. 367.
- Cohen, H.A., and Lundberg, N., 1988, Sandstone petrology of the Seymour Canal Formation (Gravina-Nutzotin belt): Implications for the accretion history of southeast Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 20, no. 7, p. A163.

- Coleman, D.A., 1985, Shelf to basin transition of Silurian-Devonian rocks, Porcupine River area, east-central Alaska: American Association of Petroleum Geologists Bulletin, v. 69, no. 4, p. 659.
- Coleman, R.G., 1977, Ophiolites: New York, Springer-Verlag, 229 p.
- Coleman, R.G., 1984, The diversity of ophiolites: Geologie en Mijnbouw, v. 63, p. 141-150.
- Coleman, R.G., and Burns, L.E., 1985, The Tonsina high-pressure mafic ultramafic cumulate sequence, Chugach Mountains, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 348.
- Coleman, R.G., Lee, D.E., Beatty, L.B., and Brannock, W.W., 1965, Eclogites and eclogites; Their differences and similarities: Geological Society of America Bulletin, v. 76, p. 483–508.
- Collett, T.S., Bird, K.J., Kvenvolden, K.A., and Magoon, L.B., 1988, Geologic interrelations relative to gas hydrate within the North Slope of Alaska: U.S. Geological Survey Open-File Report 88–389, 150 p.
- Collett, T.S., Bird, K.J., Kvenvolden, K.A., and Magoon, L.B., 1989, Map showing the depth to the base of the deepest ice-bearing permafrost as determined from well logs, North Slope, Alaska: U.S. Geological Survey Oil and Gas Investigations Map OM–0222, scale 1:1,000,000.
- Collier, A.J., 1903, The coal resources of the Yukon, Alaska: U.S. Geological Survey Bulletin 218, 71 p.
- Collier, A.J., 1906, Geology and coal resources of the Cape Lisburne region, Alaska: U.S. Geological Survey Bulletin 278, 54 p.
- Collins, F.R., 1958, Test wells, Topagoruk area, Alaska, *in* Part 5, Subsurface geology and engineering data: Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 305-D, p. 265–316.
- Collins, F.R., 1959, Test wells, Square Lake and Wolf Creek areas, Alaska, in Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, part 5, Subsurface geology and engineering data: U.S. Geological Survey Professional Paper 305-H, p. 423–484.
- Collins, F.R., 1961, Core test and test wells, Barrow area, Alaska, *in* Part 5, Subsurface geology and engineering data: Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 305-K, p. 569–644.
- Collins, F.R., and Robinson, R.M., 1967, Subsurface stratigraphic, structural, and economic geology, northern Alaska: U.S. Geological Survey Open-File Report, 171 p.
- Combellick, R.A., 1991, Paleoseismicity of the Cook Inlet region, Alaska: evidence from peat stratigraphy in Turnagain and Knik Arms: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 112, 52 p.
- Condomines, M., and 6 others, 1983, Helium, oxygen, strontium, and neodymium isotopic relationships in Icelandic volcanics: Earth and Planetary Science Letters, v. 66, p. 125–136.
- Coney, P.J., Jones, D.L., and Monger, J.W.H., 1980, Cordilleran suspect terranes: Nature, v. 288, p. 329-333.
- Coney, P.J., 1983, Structural and tectonic aspects of accretion in Alaska, *in* Howell, D.G., Jones, D.L., Cox, A., and Nur, A., Proceedings of the Circum-Pacific Terrane Conference: Stanford, Calif., Stanford University Publications, p. 68–70.
- Coney, P.J., 1984, Structural and tectonic aspects of accretion in Alaska, *in* Howell, D.G., Jones, D.L., Cox, A., and Nur, A., eds., Proceedings of the Circum-Pacific Terrane Conference: Stanford University Publications in the Earth Sciences, v. 18, p. 68–70.
- Coney, P.J., 1989, Structural, aspects of suspect terranes and accretionary tectonics in western North America: Journal of Structural Geology, v. 11, p. 107–125.
- Coney, P.J., and Jones, D.L., 1985, Accretion tectonics and crustal structure in Alaska: Tectonophysics, v. 119, p. 265–283.
- Coney, P.J., Jones, D.L., and Monger, J.W.H., 1980, Cordilleran suspect terranes: Nature, v. 288, p. 329-333.
- Connelly, W., and Moore, J.C., 1977, Geologic map of the northwest side of the Kodiak Islands, Alaska: U.S. Geological Survey Open-File Map 77–382, 1 sheet, scale 1:250,000.
- Connelly, W., 1978, Uyak Complex, Kodiak Islands, Alaska: A Cretaceous subduction complex: Geological Society of America Bulletin, v.89, p.755–769.
- Connelly, W., and Moore, J.C., 1979, Geologic map of the northwest side of the Kodiak and adjacent islands, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1057, 2 sheets, scale 1:250,000.

- Connor, C.L., 1984, A middle Wisconsin pollen record from the Copper River Basin, Alaska, *in* Coonrad, W.L., and Ellicott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 102–103.
- Conrad, W.K., and Kay, R.W., 1984, Ultramafic and mafic inclusions from Adak Island; Crystallization history, and implications for the nature of primary magmas and crustal evolution of the Aleutian arc: Journal of Petrology, v. 25, p. 88-125.
- Conrad, W.K., Kay, S.M., and Kay, R.W., 1983, Magma mixing in the Aleutian Arc: Evidence from cognate inclusions and composite xenoliths: Journal of Volcanology and Geothermal Research, v. 18, p. 279–295.
- Conwell, C.N., 1977, Boulder Creek tin lode deposit: Fairbanks, Alaska Division of Geological and Geophysical surveys Geologic Report 55, p. 86–92.
- Conwell, C.N., and Triplehorn, D.M., 1976, High-quality coal near Point Hope, northwestern Alaska, *in* Short notes on Alaskan geology, 1976: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 51, p.31–35.
- Conwell, C.N., and Triplehorn, D.M., 1978, Herendeen Bay-Chignik coals, southern Alaska Peninsula: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 8, 2 plates, 15 p.
- Cook, D.L., 1983, Placer mining in Alaska: Fairbanks, University of Alaska Mineral Industry Research Laboratory Report 65, 157 p.
- Cooper, A.K., and Marlow, M.S., 1983, Preliminary results of geophysical and geological studies of the Bering Sea Shelf during 1982: U.S. Geological Survey Open-File Report 83–322.
- Cooper, A.K., Marlow, M.S., and Scholl, D.W., 1976, Mesozoic magnetic lineations in the Bering Sea marginal basin: Journal of Geophysical Research, v. 81, p. 1916–1934.
- Cooper, A.K., Marlow, M.S., and Scholl, D.W., 1986, Geologic framework of the Bering Sea crust, *in* Scholl, D.W., ed., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 6, p. 73–102.
- Cooper, A.K., Scholl, D.W., and Marlow, M.S., 1976, Plate tectonic model for the evolution of the eastern Bering Sea basin: Geological Society of America Bulletin, v. 87, p. 1119–1126.
- Cooper, A.K., Bailey, K.A., Howell, J.I., Marlow, M.S., and Scholl, D.W., 1976, Preliminary residual magnetic map of the Bering Sea Basin and the Kamchata Peninsula: U.S. Geological Survey Miscellaneous Field Studies Map MF–715, scale 1:2,500,000.
- Cooper, A.K., Marlow, M.S., Parker, A.W., and Childs, J.R., 1979, Structure map on acoustic basement in the Bering Sea: U.S. Geological Survey Miscellaneous Field Studies Map MF-1165, 1 sheet, scale 1:2,500,000.
- Cooper, A.K., Scholl, D.W., Vallier, T.L., and Scott, E.W., 1980, Resource report for the deep water areas of proposed OCS lease sale 70, St. George basin, Alaska: U.S. Geological Survey Open-File Report 80–246.
- Cooper, H.M., Snyder, N.H., Abernethy, R.F., Tarpley, E.C., and Swingle, R.J., 1946, Analyses of mine, tipple, and delivered samples, in Analyses of Alaska coals: U.S. Bureau of Mines Technical Paper 682, p. 19–69.
- Cordey, F., Mortimer, N., DeWever, P., and Monger, J.W.H., 1987, Significance of Jurassic radiolarians from the Cache Creek terrane, British Columbia: Geology, v. 15, p. 1151–1154.
- Corte, A.E., 1969, Geocryology and engineering, *in* Varnes, D.J., and Kiersch, G., eds., Reviews in engineering geology: Boulder, Colo., Geological Society of America, v. 2, p. 119–185.
- Coulter, H.W., and 5 others, 1965, Map showing extent of glaciations in Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map 1-415, scale 1:2,500,000.
- Cowan, D.S., 1982, Geological evidence for post-40 m.y. B.P. large-scale northwestward displacement of part of southeastern Alaska: Geology, v.10, p. 309–313.
- Cowan, D.S., and Boss, R.F., 1978, Tectonic framework of the southwestern Kenai Peninsula, Alaska: Geological Society of America Bulletin, v. 89, p. 155–158.
- Cox, A., 1966, Geomagnetic secular variation in Alaska [abs.]: American Geophysical Union Transaction, v. 47, no. 1, p. 78.
- Cox, A., and Dalrymple, G.B., 1967, Geomagnetic polarity epochs–Nunivak Island, Alaska: Earth and Planetary Science Letters, v. 3, no. 2, p. 173–177.

- Cox, A., and Engebretson, D., 1985, Change in motion of Pacific plate at 5 m.y. B.P.: Nature, v. 313, p. 472-474.
- Cox, A., and Gordon, R.G., 1984, Paleolatitudes determined from paleomagnetic data from vertical cores: Reviews of Geophysics and Space Physics, v. 22, p. 47–72.
- Cox, A., Hopkins, D.M., and Dalrymple, G.B., 1966, Geomagnetic polarity epochs, Pribilof Islands, Alaska: Geological Society America Bulletin, v. 77, p. 883–910.
- Cox, D., 1983, U.S. Geological Survey-INGEOMINAS Mineral Resource Assessment of Columbia: Ore deposit models: U.S. Geological Survey Open–File Report 83–423, 64 p.
- Cox, D., 1983, U.S. Geological Survey-INGEOMINAS Mineral Resource Assessment of Columbia: Additional ore deposit models: U.S. Geological Survey Open-File Report 83–901, 32 p.
- Cox, D.P., and Singer, D.A., eds., 1986, Mineral deposit models: U.S. Geological Survey Bulletin 1693, 379 p.
- Craig, J.D., Sherwood, K.W., and Johnson, P.P., 1985, Geologic report for the Beaufort Sea planning area, Alaska: Minerals Management Service OCS Report MMS 85–0111, 192 p.
- Cram, I.H., ed., 1971, Future petroleum provinces of the United States; Their geology and potential: American Association of Petroleum Geologists Memoir 15, 803 p.
- Cramer, C.H., May, S.D., Hanna, W.F., Grantz, A., and Holmes, M.L., 1986, Magnetic anomaly map of the Chukchi Sea and adjacent northwest Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1182 F. scale 1:1,000,000.
- Cramer, C.H., May, S.D., Hanna, W.F., Grantz, Arthur, and Holmes, M.L., 1986, Reconnaissance magnetic anomaly map of the Chukchi Sea and adjacent northwest Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I-1182-F, scale 1:1,000,000.
- Crane, R.C., 1987, Cretaceous olistostrome model, Brooks Range, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50, vols. 1 and 2, p. 433–440.
- Crane, R.C., and Mull, C.G., 1987, Structural style—Brooks Range mountain front, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50, vols. 1 and 2, p. 631–638.
- Crane, R.C., and Wiggins, V.D., 1976, The Ipewik Formation, a significant Jurassic-Neocomian map unit in the northern Brooks Range fold belt [abs.]: American Association of Petroleum Geologists, Pacific Section, 51st Annual Meeting, Program and Abstracts, p. 25–26.
- Crawford, A.J., Falloon, T.J., and Eggins, S., 1987, The origin of island arc high-alumina basalts: Contributions to Mineralogy and Petrology, v. 97, p. 417–430.
- Crawford, M.L., and Hollister, L.S., 1982, Contrast of metamorphic and structural histories across the Work Channel lineament, Coast Plutonic Complex, British Columbia: Journal of Geophysical Research, v. 87, no. B5, p. 3849–3860.
- Crawford, M.L., and Hollister, L.S., 1983, Correction to 'Contrast of metamorphic and structural histories across the Work Channel lineament, Coast Plutonic Complex, British Columbia': Journal of Geophysical Research, v. 88, no. B12, p. 10645–10646.
- Crawford, M.L., Hollister, L.S., and Woodsworth, G.J., 1987, Crustal deformation and regional metamorphism across a terrane boundary, Coast Plutonic Complex, British Columbin: Tectonics, v. 6, p. 343–361.
- Creager, J.S., Scholl, D.W., and others, 1973, Initial Reports of the Deep Sea Drilling Project: Washington, D.C., U.S. Government Printing Office, v. 19, 913 p.
- Creager, K.C., and Boyd, T.M., 1991, The geometry of Aleutian subduction: Three dimensional kinematic flow model: Journal of Geophysical Research, v. 96, p. 2293–2307.
- Crick, R.W., 1971, Potential petroleum reserves, Cook Inlet, Alaska, *in* Cram, I.H., ed., Future petroleum provinces of the United States: Their geology and potential: American Association of Petroleum Geologists Memoir 15, p. 109–119.
- Cross, T.A., and Pilger, R.H. Jr., 1982, Controls of subduction geometry, location of magmatic arcs, and tectonics of arc and back-arc regions: Geological Society of America Bulletin, v. 93, p. 545–562.
- Crowder, K.L., and Decker, J., 1985, Provenance of conglomerate clasts from the Upper Cretaceous Kuskokwim Group, southwest Alaska [abs.]: 60th Annual Meeting, Pacific Section, American Association of Petroleum Geologists Program and Abstracts, p. 63.

- Crowder, R.K., 1987, Cretaceous basin to shelf transition in northern Alaska: Deposition of the Fortress Mountain Formation, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50,vols. 1 and 2, p. 449–458.
- Crowder, R.K., 1989, Deposition of the Fortress Mountain Formation, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 2, p. 293–301.
- Crowder, R.K., 1990, Permian and Triassic sedimentation in the northeastern Brooks Range, Alaska: Deposition of the Sadlerochit Group: American Association of Petroleum Geologists Bulletin, v. 74, p. 1351–1370.
- Csejtey, B., Jr., 1974, Reconnaissance geologic investigations in the Talkeetna Mountains, Alaska: U.S. Geological Survey Open-File Report 74–147, 53 p., scale 1:63,360.
- Csejtey, B., Jr.1976, Implications of a late Paleozoic volcanic arc in the Talkeetna Mountains, south-central Alaska: Geology, v. 4, p. 49–52.
- Csejtey, B., and Miller, R.J., 1978, Map and table describing metalliferous and selected nonmetalliferous mineral deposits, Talkeetna Mountains quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–558B, 1 sheet, scale 1:250,000, 20 p.
- Csejtey, B., Jr., and Patton, W.W., Jr., 1974, Petrology of a nepheline syenite of St. Lawrence Island, Alaska: U.S. Geological Survey Journal of Research v. 2, no. 1, p. 41–47.
- Csejtey, B., Jr., Patton, W.W., Jr., and Miller, T.P., 1971, Cretaceous plutonic rocks of St. Lawrence Island, Alaska; A preliminary report, *in* Geological Survey Research, 1971: U.S. Geological Survey Professional Paper 750–D, p. D68–D76.
- Csejtey, B., Jr., and St. Aubin, D.R., 1981, Evidence for northwestward thrusting of the Talkeetna superterrane, and its regional significance, *in* Albert, N.R.D., and Hudson, T., eds., 1981, The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B49–B51.
- Csejtey, B., Jr., and 8 others, 1978, Reconnaissance geologic map and geochronology, Talkeetna Mountains quadrangle, northern part of Anchorage quadrangle, and southwest corner of Healy quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–558A, 1 sheet, scale 1:250,000, 60 p.
- Csejtey, B., Jr., and 14 others, 1986, Geology and geochronology of the Healy quadrangle, Alaska: U.S. Geological Survey Open-File Report 86–396, 4 sheets, scale 1:250,000, 92 p.
- Csejtey, B., Jr., Cox, D.P., Evarts, R.C., Stricker, G.D., and Foster, H.L., 1982, The Cenozoic Denali fault system and the Cretaceous accretionary development of southern Alaska: Journal of Geophysical Research, v.87, no.B5, p. 3741–3754.
- Csejtey, B., Jr., Nelson, W.H., Eberlein, G.D., Lanphere, M.A., and Smith, J.G., 1977, New data concerning age of the Arkose Ridge Formation, south-central Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B62–B64.
- Curiale, J.A., 1987, Crude oil chemistry and classification, Alaska North Slope, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Pacific Section, Society of Economic Paleontologists and Mineralogists, and Alaska Geological Society, p. 161–167.
- Curry, B.B., 1989, Absence of Altonian glaciation in Illinois: Quaternary Research, v. 31, p. 1-13.
- Curtis, G.H., 1968, The stratigraphy of the ejecta from the 1912 eruption of Mount Katmai and Novarupta, Alaska, *in* Coats, R.R., Hay, R.L., and Anderson, C.A., eds., Studies in volcanology: Geological Society of America Memoir 166, p. 153–210.
- Curtis, S.M., Ellersieck, I., Mayfield, C.F., and Tailleur, I.L., 1984, Reconnaissance geologic map of southwestern Misheguk Mountain quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigation Series Map 1–1502, scale 1:63,360.
- Curtis, S.M., Ellersieck, I., Mayfield, C.F., and Tailleur, I.L., 1990, Reconnaissance geologic map of the De Long Mountains A-l and B-l quadrangles and part of the C-2 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1930, scale 1:63,360.
- Cushing, G.W., 1984, Early Mesozoic tectonic history of the eastern Yukon Tanana upland: Albany, State University of New York, Master's thesis, 255 p.
- Cushing, G.W., and Foster, H.L., 1984, Structural observations in the Circle quadrangle, Yukon-Tanana Upland, Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 64–65.

- Cushing, G.W., Foster, H.L., and Harrison, T.M., 1984, Mesozoic age of metamorphism and thrusting in the eastern part of east-central Alaska: EOS (Transactions of the American Geophysical Union), v.65, no. 16, p. 290–291.
- Cushing, G.W., Foster, H.L., Harrison, T.M., and Laird, J., 1984, Possible Mesozoic accretion in the eastern Yukon-Tanana Upland, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 481.
- Cushing, G.W., Foster, H.L., Laird, J., and Burack, A.C., 1982, Description and preliminary interpretation of folds and faults in a small area in the Circle B-4 and B-5 quadrangles, Alaska: U.S. Geological Survey Circular 844, p. 56–58.
- Cushing, G.W., Meisling, K.E., Christopher, R.A., and Carr, T.R., 1986, The Cretaceous to Tertiary evolution of the Tintina fault zone, east-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v.18, p.98.
- Czamanske, G.K., and Calk, L.C., 1981, Mineralogical records of cumulus processes, Brady Glacier Ni-Cu deposit, southeastern Alaska: Mining Geology, v.31, p.213–233.
- Dadisman, S.V., 1980, Radiometric ages of rocks in south-central Alaska and western Yukon Territory: U.S. Geological Survey Open-File Report 80–183, 82 p., 1 sheet, scale 1:1,000,000.
- Dahlstrom, C.D.A., 1970, Structural geology in the eastern margin of the Canadian Rocky Mountains: Bulletin of Canadian Petroleum Geology, v. 18, no.3, p.332–406.
- Dall, W.H., 1870, Alaska and its resources: London, Lee and Shepard, 627 p.
- Dall, W.H., 1881, Extract from a report to C.P. Patterson, Supt., Coast and Geodetic Survey: American Journal of Science, v. 21, nos. 121–126, p. 104–110.
- Dall, W.H., and Harris, G.D., 1892, Correlation papers, Neocene: U.S. Geological Survey Bulletin 84, 349 p.
- Dall, W.H., 1896, Coal and lignite in Alaska: U.S. Geological Survey Annual Report 17, p. 763-908.
- Dall, W.H., 1918, Reminiscences of Alaska volcanoes: Scientific Monthly, v. 7, p. 80-90.
- Dalrymple, G.B., and Lanphere, M.A., 1971, ⁴⁰Ar/³⁹Ar technique of K/Ar dating; a comparison with the conventional technique: Earth and Planetary Science Letters, v. 12, no. 3, p. 300–308.
- Dalrymple, G.B., and Lanphere, M.A., 1974, ⁴⁰Ar/³⁹Ar age spectra of some undisturbed terrestrial samples: Geochimica et Cosmochimica Acta, v. 38, p. 715–738.
- Dalrymple, G.B., Clague, D.A., and Lanphere, M.A., 1977, Revised age for Midway volcanism, Hawaiian volcanic chain: Earth and Planetary Science letters, v. 37, p. 107–116.
- Dalrymple, G.B., Cox, Allan, Doell, R.R., and Gromme, C.S., 1967, Pliocene geomagnetic polarity epochs: Earth and Planetary Science Letters, v. 2, p. 163–173.
- Daniels, J.J., Keller, G.V., and Jacobson, J.J., 1976, Computer-assisted interpretation of electromagnetic soundings over a permafrost section: Geophysics, v. 41, no. 4, p.752–765.
- Davidson, C., Hollister, S.M., and Schmid, S.M., 1992, Role of melt in the formation of a deep-crustal compressive shear zone: The Maclaren Glacier metamorphic belt, south-central Alaska: Tectonics, v. 11, p. 348–359.
- Davies, D.L., and Moore, J.C., 1984, 60 m.y. intrusive rocks from the Kodiak Islands link the Peninsular, Chugach and Prince William terranes [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 277.
- Davies, J.H., and Stevenson, D.J., 1992, Physical model of source region of subduction zone volcanics: Journal of Geophysical Research, v. 97, p. 2037–2070.
- Davies, J.N., Sykes, L.R., House, L., and Jacob, K.H., 1981, Shumagin seismic gap, Alaska Peninsula: History of great earthqukes, tectonic setting, and evidence for high seismic potential, Journal of Geophysical Research, v. 86, p. 3821–3855.
- Davies, W.E., 1972, The Tintina trench and its reflection in the structure of the Circle area, Yukon Tanana upland, Alaska: Twenty-fourth International Geological Congress, Section 3, Tectonics, Montreal, Canada, p. 211–216.
- Davis, A., and Plafker, G., 1985, Comparative geochemistry of Triassic basaltic rocks from the Taku terrane on the Chilkat Peninsula and Wrangellia: Canadian Journal of Earth Sciences, v. 22, p. 183–194.
- Davis, A.S., and Plafker, George, 1986, Eocene basalts from the Yakutat terrane: Evidence for the origin of an accreting terrane in southern Alaska: Geology, v. 14, p. 963–966.
- Davis, A.S., Lee-Wong, Florence, Pickthorn, L.B., and Marlow, M.S., 1987, Petrology, geochemistry, and age of basanitoids dredged from the Bering Sea continental margin west of Navarin Basin: U.S. Geological Survey Open-file Report 87–407, 22 p.

- Davis, A.S., Pickthorn, L.B.G., Vallier, T.L., and Marlow, M.S., 1989, Petrology and age of volcanic-arc rocks from the continental margin of the Bering Sea: implications for Early Eocene relocation of plate boundaries: Canadian Journal of Earth Sciences, v. 26, p. 1474–1490.
- Davis, A.S., Gunn, S.H., Gray, L.B., Marlow, M.S., and Wong, F.L., 1993, Petrology and isotopic composition of Quaternary basanites dredged from the Bering Sea continental margin near Navarin Basin: Canadian Journal of Earth Sciences, v. 30, p. 975–984.
- Davis, T.N., 1960, A field report on the Alaska earthquakes of April 7, 1958: Seismology Society America Bulletin, v. 50, no. 4, p. 489–510.
- Dawson, K.M., 1988, Mineral deposits and principal mineral occurrences of the Canadian Cordillera: Geological Survey of Canada Map 1513A, scale 1:2,000,000.
- de Saint-Andre, Bruno, Lancelot, J.R., and Collot, Bernard, 1983, U-Pb geochronology of the Bokan Mountain peralkaline granite, southeastern Alaska: Canadian Journal of Earth Sciences, v. 20, p. 236–245.
- DeBari, S.M., and Coleman, R.G., 1989, Examination of the deep levels of an island arc: Evidence from the Tonsina ultramafic-mafic assemblage, Tonsina, Alaska: Journal of Geophysical Research, v. 94, p. 4373–4391.
- DeBari, S.M., and Sleep, N.H., 1991, High-Mg, low-A1 bulk composition of the Talkeetna arc, Alaska: Implications for primary magmas and the nature of arc crust: Geological Society of America Bulletin, v. 103, p. 37–47.
- DeBari, S., Kay, S.M., and Kay, R.W., 1987, Ultramafic xenoliths from Adagdak Volcano, Adak, Aleutian Islands, Alaska; Deformed igneous cumulates from the Moho of an island arc: Journal of Geology, v. 95, p. 329–341.
- Debelius, C.A., 1974, Environmental impact statement; Offshore oil and gas development in Cook Inlet, Alaska: U.S. Army Corps of Engineers, Alaska District, 446 p.
- Decker, J.E., 1979, Preliminary aeromagnetic map of southeastern Alaska: U.S. Geological Survey Open-File Report 79–1694, scale 1:1,000,000.
- Decker, J.E., 1980, Geology of a Cretaceous subduction complex western Chichagof Island, southeastern Alaska: Palo Alto, Calif., Stanford University, Ph.D. dissertation, 2 plates, scale 1:63,360, 135 p.
- Decker, J.E., 1980, Geology of a Cretaceous subduction complex, western Chichagof Island, southeastern Alaska [abs.]: Ann Arbor, Michigan, Dissertation Abstracts International, v. 41, p. 4040B–4041B.
- Decker, J.E., 1980, Geologic map of western Chichagof Island, southeastern Alaska: U.S. Geological Survey, Open-File Report 80–150, 2 sheets, scale 1:63,360.
- Decker, J.E., 1984, Geologic map of the Sparrevohn area: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data-File Report 8442, 2 sheets, scale 1:40,000.
- Decker, J.E., 1984, The Kuskokwim Group; A post-accretionary successor basin in southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 277.
- Decker, J.E., and Dillon, J.T., 1984, Interpretation of regional aeromagnetic signatures along the southern margin of the Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 278.
- Decker, J.E., and Gilbert, W.G., 1978, The Mount Galen volcanics; A new middle Tertiary volcanic formation in the central Alaska Range: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 59, 11 p., scale 1:63,360.
- Decker, J.E., and Hoare, J.M., 1982, Sedimentology of the Cretaceous Kuskokwim Group, southwest Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 81–83.
- Decker, J.E., and Karl, S. 1977, Preliminary aeromagnetic map of central Alaska: U.S. Geological Survey Open-File Report 77–168–E, scale 1:1,000,000.
- Decker, J.E., and Karl, S., 1977, Preliminary aeromagnetic map of Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–796–E, scale 1:1,000,000.
- Decker, J.E., and Karl, S., 1977, Preliminary aeromagnetic map of the Brooks Range and Arctic Slope, Alaska: U.S. Geological Survey Open-File Report 77–166–E, scale 1:1,000,000.
- Decker, J.E., and Karl, S., 1977, Preliminary aeromagnetic map of the eastern part of southern Alaska: U.S. Geological Survey Open-File Report 77–169–E, scale 1:1,000,000.
- Decker, J.E., and Karl, S., 1977, Preliminary aeromagnetic map of the western part of southern Alaska: U.S. Geological Survey Open-File Report 77–169–J, 1 sheet, scale 1:1,000,000.

- Decker, J.E., and Murphy, J.M., 1985, Large Upper Mesozoic clastic basins in Alaska, *in* 6th European Regional Meeting Abstracts: International Association of Sedimentologists, p. 551–553.
- Decker, J.E., and Plafker, G., 1982, Correlation of rocks in the Tarr Inlet suture zone with the Kelp Bay Group, *in* Coonrad, W. L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 119–123.
- Decker, J.E., and Plafker, G., 1983, The Chugach terrane—A Cretaceous subduction complex in southern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 386.
- Decker, J.E., Reifenstuhl, R.R., and Coonrad, W.L., 1984, Compilation of geologic data from the Russian Mission A-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–19, 1 sheet, scale 1:63,360.
- Decker, J.E., Robinson, M.S., Murphy, J.M., Reifenstuhl, R.R., and Albanese, M.D., 1984, Geologic map of the Sleetmute A-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigation 84–8, 1 sheet, scale 1:40,000.
- Decker, J.E., Reifenstuhl, R.R., and Coonrad, W.L. 1985, Compilation of geologic data from the Sleetmute A-7 quadrangle, southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 85–1, scale 1:63,360.
- Decker, J.E., Reifenstuhl, R.R., and Coonrad, W.L. 1985, Compilation of geologic data from the Taylor Mountains D-7 quadrangle, southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 85–3, scale 1:63,360.
- Decker, J.E., Reifenstuhl, R.R., Robinson, M.F., and Waythomas, C.F., 1986, Geologic map of the Sleetmute A-5, A-6, B-5, and B-6 quadrangles, Alaska: Fairbanks, Alaska Divison of Geological and Geophysical Surveys Professional Report 93, 22 p., 1 sheet, scale 1:250,000.
- Decker, J.E., Reifenstuhl, R., Robinson, M.S., and Waythomas, C.A., 1991, Geologic map of the Sleetmute A-5, A-6, B-5, and B-6 quadrangles, southwest Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report, 1 sheet, scale 1:63,360.
- Decker, J.E., Wilson, F.H., and Turner, D.L., 1980, Mid-Cretaceous subduction in southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 12, no. 3, p. 103.
- Defant, M.J., and Drummond, M.S., 1990, Derivation of some modern arc magmas by melting of young subducted lithosphere: Nature, v. 347, p. 662–665.
- Dehlinger, P., 1980, Gravity and crustal structure in the southern Beaufort Sea (north of Alaska): Final report to the Office of Naval Research on contract N 0014-75 C-0714 with the University of Connecticut, Storrs, September 1980, 31 p.
- Deininger, J.W., 1972, Petrology of the Wrangell volcanics near Nabesna, Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 66 p.
- Delaney, G.D., 1981, The mid-Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory, *in* Campbell, F.H.A., ed., Proterozoic basins of Canada: Geological Survey of Canada Paper 81–10, p. 1–23.
- DeLong, S.E., 1974, Distribution of Rb, Sr and Ni in igneous rocks, central and western Aleutian Islands, Alaska: Geochimica et Cosmochimica Acta, v. 38, p. 245–266.
- DeLong, S.E., and McDowell, F.W., 1975, K-Ar ages from the Near Islands, western Aleutian Islands, Alaska; Indication of a mid-Oligocene thermal event: Geology, v. 3, no. 12, p. 691–694.
- DeLong, S.E., Fox, P.J., and McDowell, F.W., 1978, Subduction of the Kula Ridge at the Aleutian Trench: Geological Society of America Bulletin, v. 89, no. 1, p. 83–95.
- DeLong, S.E., Perfit, M.R., McCulloch, M.T., and Ach, J., 1985, Magmatic evolution of Semisopochnoi Island, Alaska; Trace element and isotopic constraints: Journal of Geology, v. 93, p. 609–618.
- DeMets, C., Gordon, R.G., Argus, D.F., and Stein, S., 1990, Current plate motions: Geophysical Journal International, v. 101, p. 425–478.
- Dempsey, W.J., Meuschke, J.L., and Andreason, G. E., 1957, Total intensity aeromagnetic profiles of Bethel Basin, Alaska: U.S. Geological Survey Open-File Report 57–33, 3 sheets, scale 1:250,000.
- Denton, G.H., 1974, Quaternary glaciations of the White River valley, Alaska, with a regional synthesis for the northern St. Elias Mountains, Alaska and Yukon Territory: Geological Society of America Bulletin, v. 85, p.871–892.
- Denton, G.H., and Armstrong, R.L., 1969, Miocene-Pliocene glaciations in southern Alaska: American Journal of Science, v. 267, p. 1121–1142.

- Denton, G.H. and Stuiver, Minze, 1967, Late Pleistocene glacial stratigraphy and chronology, northeastern St. Elias Mountains, Yukon Territory, Canada: Geological Society of America Bulletin, v. 78, p. 485–510.
- Department of Energy, 1982, Total magnetic intensity anomaly map, Ophir quadrangle: Department of Energy Open-File Map GJM-207(82),4 plates, scale 1:250,000.
- Derksen, S.J., 1976, Glacial geology of the Brady Glacier region, Alaska: Columbus, Ohio State University, Institute of Polar Studies Report 60, 97 p.
- Detterman, R.L., 1970, Sedimentary history of Sadlerochit and Shublik formations in northeastern Alaska, *in* Adkison. W.L., and Brosgé, W.P., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, Calif., American Association of Petroleum Geologists, Pacific Section, p. 01–013.
- Detterman, R.L., 1978, Interpretation of depositional environments in the Chignik Formation, Alaska Peninsula: U.S. Geological Survey Circular 772–B, p. B62–B63.
- Detterman, R.L., 1985, The Paleogene sequence on the Alaska Peninsula [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, p. 661.
- Detterman, R.L., 1986, Glaciation of the Alaska Peninsula, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 151–170
- Detterman, R.L., 1988, Mesozoic biogeography of southern Alaska with implications for the paleogeography: U.S. Geological Survey Open-File Report 88–662, 27 p.
- Detterman, R.L., 1990, Stratigraphic correlation and interpretation of exploratory wells, Alaska Peninsula: U.S. Geological Survey Open-File Report 90–279, 51 p.
- Detterman, R.L., and Hartsock, J.K., 1966, Geology of the Iniskin-Tuxedni region, Alaska: U.S. Geological Survey Professional Paper 512, 78 p.
- Detterman, R.L., and Miller, J.W., 1985, Kaguyak Fm.; An Upper Cretaceous flysch deposit, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 49–51.
- Detterman, R.L., and Reed, B.L., 1980, Stratigraphy, structure, and economic geology of the Iliamna quadrangle, Alaska: U.S. Geological Survey Bulletin 1368–B, p. B1–B86.
- Detterman, R.L., Bickel, R.S., and Gryc, George, 1963, Geology of the Chandler River region, Alaska: U.S. Geological Survey Professional Paper 303–E, p. 223–324.
- Detterman, R.L., Bowsher, A.L., and Dutro, J.T., Jr., 1958, Glaciation on the Arctic slope of the Brooks Range, northern Alaska: Arctic, v. 11, p. 4361.
- Detterman, R.L., Case, J.E., Wilson, F.H., and Yount, M.E., 1987, Geologic map of the Ugashik, Bristol Bay, and western part of Karluk quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1685, scale 1:250.000.
- Detterman, R.L., Case, J.E., Wilson, F.H., Yount, M.E., and Allaway, W.H. Jr., 1983, Generalized geologic map of the Ugashik, Bristol Bay, and part of Karluk quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1539–A, scale 1:250,000, 1 sheet.
- Detterman, R.L., Case, J.E., Miller, J.W., Wilson, F.H., and Yount, M.E., Stratigraphic framework of the Alaska Peninsula: U.S. Geological Survey Bulletin 1969–A (in press).
- Detterman, R.L., Hudson, T.L. and Hoare, J.M., 1975, Bruin Bay fault inactive during Holocene: *in* Johnson, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1977: U.S. Geological Survey Circular 722, p. 45.
- Detterman, R.L., Hudson, T.L., Plafker, G., Tysdal, R.G., and Hoare, J.M., 1976, Reconnaissance geologic map along Bruin Bay and Lake Clark faults, in Kenai and Tyonek quadrangles, Alaska: U.S. Geological Survey Open-File Report 76–477, 4 p., 1 plate, scale 1:250,000.
- Detterman, R.L., Miller, T.P., Wilson, F.H., and Yount, M.E., 1985, Geologic map of the Ugashik and western Karluk quadrangles, Alaska: U.S. Geological Survey Miscellaneous Geological Investigations Map 1–1685, scale 1:250,000.
- Detterman, R.L., Miller, T.P., Yount, M.E., and Wilson, F.H., 1981, Geologic map of the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigation Map 1–1229, scale 1:250,000.
- Detterman, R.L., Miller, T.P., Yount, M.E. and Wilson, F.H., 1981, Quaternary geologic map of the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigation Series Map I–1292, scale 1:250,000.

- Detterman, R.L., Plafker, G., Tysdal, R.G. and Hudson, T., 1976, Geology and surface features along part of the Talkeetna segment of the Castle Mountain-Caribou fault system, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–738, 1 sheet, scale 1:63,360.
- Detterman, R.L., Plafker, G., Hudson, Travis, Tysdal, R.G., and Pavoni, Nazario, 1974, Surface geology and Holocene breaks along the Susitna segment of the Castle Mountain fault, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–618, 1 sheet, scale 1:24,000.
- Detterman, R.L., Reed, B.L., and Lanphere, M.A., 1965, Jurassic plutonism in the Cook Inlet region, Alaska, *in* Geological Survey research 1965: U.S. Geological Survey Professional Paper 525–D, p. D16–D21.
- Detterman, R.L., Reiser, H.N., Brosgé, W.P., and Dutro, J.T., Jr., 1975, Post-Carboniferous stratigraphy, northeastern Alaska: U.S. Geological Survey Professional Paper 886, 46 p.
- Detterman, R.L., Wilson, F.H., Yount, M.E., and Miller, T.P., 1987, Quaternary geologic map of the Ugashik, Bristol Bay, and western part of Karluk quadrangles, Alaska: U.S. Geologic Survey Miscellaneous Investigations Series Map 1–1801, scale 1:250,000.
- Dewey, J.F, and Bird, J.M., 1970, Mountain belts and the new global tectonics: Journal of Geophysical Research, v. 75, p. 2625–2647.
- Dick, H.J.B., and Bullen, T., 1984, Chromian spinel as a petrogenetic indicator of abyssal and alpine-type peridotites and spatially associated lavas: Contributions to Mineralogy and Petrology, v. 86, p. 54–76.
- Dickey, D.B., 1982, Tertiary sedimentary rocks and tectonic implications of the Farewell fault zone, McGrath quadrangle, Alaska: Fairbanks, University of Alaska, Master's thesis, 54 p.
- Dickey, D.B., 1984, Cenozoic nonmarine sedimentary rocks of the Farewell fault zone, McGrath quadrangle, Alaska: Sedimentary Geology, v. 38, p. 443–463.
- Dickey, D.B., Gilbert, W.G., and Kline, J.T., 1982, Cenozoic nonmarine sedimentary rocks and structure of southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 14, p. 160.
- Dickinson, K.A., and Cunningham, K., 1984, Death Valley, Alaska, uranium deposit [abs.]: Geological Society of America Abstracts with Programs, v. 16, p.278.
- Dickinson, W.R, 1972, Evidence for plate-tectonic regimes in the rock record: American Journal of Science, v. 272, p. 551–576.
- Dickinson, W.R., and Snyder, W.S., 1979, Geometry of subducted slabs related to the San Andreas transform: Journal of Geology, v. 87, p. 609–627.
- Dickinson, W.R., and Suczek, C.A., 1979, Plate tectonics and sandstone compositions: American Association of Petroleum Geologists Bulletin, v. 63, p. 2164–2182.
- Dietrich, J.R., and 5 others, 1989, The geology, biostratigraphy, and organic geochemistry of the Natsek E-56 and Edlok N 56 wells, western Beaufort Sea, *in* Current Research, Part G: Geological Survey of Canada Paper 89–IG, p. 133–158.
- Dietrich, R.V., Dutro, J.T., Jr., and Fose, R.M., 1982, AGI data sheets for geology in the field, laboratory, and office: Falls Church, Virginia, American Geological Institute.
- Dillon, J.T., 1982, Source of lode- and placer-gold deposits of the Chandalar and upper Koyukuk districts, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 158, 22 p.
- Dillon, J.T., 1987, Latest Cretaceous-earliest Tertiary metamorphism in the northeastern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 373.
- Dillon, J.T., 1987, Root zone of the Endicott allochthon, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 372.
- Dillon, J.T., 1989, Structure and stratigraphy of the southern Brooks Range and northern Koyukuk basin near the Dalton Highway, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 2, p. 157–187.
- Dillon, J.T., and Bakke, A.A., 1987, Evidence for Devonian age of the Okpilak batholith, northeastern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 373.
- Dillon, J.T., and Patton, W.W., Jr., 1984, Boundary between the Ruby geanticline and the Nixon Fork terrane [abs.]: Geological Society of America, Abstracts with Programs, v. 16, no. 5, p. 279.
- Dillon, J.T., and Reifenstuhl, R.R., 1990, Geologic map of the Wiseman B-1 quadrangle, southcentral Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 101, scale 1:63,360.

- Dillon, J.T., and Smiley, C.J., 1984, Clasts from the Early Cretaceous Brooks Range orogen in Albian to Cenomanian molasse deposits of the northern Koyukuk basin, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 279.
- Dillon, J.T., and 5 others, 1985, New radiometric evidence for the age and thermal history of the metamorphic rocks of the Ruby and Nixon Fork terranes, west-central Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 13–18.
- Dillon, J.T., Brosgé, W.P., and Dutro, J.T., Jr., 1986, Generalized geologic map of the Wiseman quadrangle, Alaska: U.S. Geological Survey Open-File Report 86–219, scale 1:250,000.
- Dillon, J.T., Hamilton, W.B., and Lueck, Larry, 1981, Geologic map of the Wiseman A-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 119, scale 1:63,360.
- Dillon, J.T., Harris, A.G., and Dutro, J.T., Jr., 1987, Preliminary description and correlation of lower Paleozoic fossil-bearing strata in the Snowden Mountain area of the south-central Brooks Range, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50, vols. 1 and 2, p. 337–345.
- Dillon, J.T., Harris, A.G., and Dutro, J.T., Jr., Solie, D.N., Blum, J.D., Jones, D.L., and Howell, D.G., 1988, Preliminary geologic map and section of the Chandalar D-6 and parts of the Chandalar C-6 and Wiseman C-1 and D-1 quadrangles, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 88–5, scale 1:63,360.
- Dillon, J.T., Pessel, G.H., Chen, J.H., and Veach, N.C., 1980, Middle Paleozoic magmatism and orogenesis in the Brooks Range, Alaska: Geology, v. 8, p. 338–343.
- Dillon, J.T., Pessel, G.H., Chen, J.H., and Veach, N.C., 1979, Tectonic and economic significance of Late Devonian and late Proterozoic U-Pb zircon ages from the Brooks Range, Alaska: Alaska Division of Geology and Geophysical Surveys Geologic Report 61, p. 36–43.
- Dillon, J.T., Pessel, G.H., Lueck, L., and Hamilton, W.B., 1987, Geologic map of the Wiseman A-4 quadrangle, southcentral Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 87, scale 1:63,360.
- Dillon, J.T., Reifenstuhl, R.R., Bakke, A.A., and Adams, D.A., 1989, Geologic map of the Wiseman A-1 quadrangle, southcentral Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 98, scale 1:63,360.
- Dillon, J.T., Tilton, G.R. Decker, J.E., and Kelly, M.J., 1987, Resource implications of magmatic and metamorphic ages for Devonian igneous rocks in the Brooks Range, *in* Tailleur, I.L., and Weimer, P., eds. Alaskan North Slope geology: Bakersfield, Calif., Pacific Section, Society of Economic Paleontologists and Mineralogists, Special Publication 50, p. 713–723.
- Dinter, D.A., 1985, Quaternary sedimentation of the Alaska Beaufort shelf; Influence of regional tectonics, fluctuating sea levels, and glacial sediment sources: Tectonophysics, v. 114, p. 133–161.
- Dinter, D.A., Carter, L.D., and Brigham-Grette, J., 1990, Late Cenozoic geologic evolution of the Alaskan North Slope and adjacent continental shelves, *in* Grantz, A., Johnson, L., and Sweeney, J., eds., The Arctic Ocean region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, p. 459–490.
- Director, Geological Survey of Canada, Undated, Geology of Northern Yukon Territory and Northwest District of Mackenzie, No. 10–1963.
- Dixon, J., 1986, Comments on the stratigraphy, sedimentology, and distribution of the Albian Sharp Mountain Formation, northern Yukon, *in* Current Research, Part B: Geological Survey of Canada Paper 86–1 B. p. 375–381.
- Dixon, J., and Dietrich, J.R., 1990, Canadian Beaufort Sea and adjacent land areas, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., 1 990, The Arctic Ocean Region: Boulder, Colo., Geological Society of America, The Geology of North America, V. L, p. 239–256.
- Dobson, D.D., 1982, Geology and alteration of the Lost River tin-tungstenfluorite deposit, Alaska: Economic Geology, v. 77, p. 1033–1052.
- Dodds, C.J., and Campbell, R.B., 1988, Potassium-argon ages of mainly intrusive rocks in the Saint Elias Mountains, Yukon and British Columbia: Geological Survey of Canada Paper 87–16, 43 p.
- Dolton, G.L., and 12 others, 1981, Estimates of undiscovered recoverable conventional resources of oil and gas in the United States: U.S. Geological Survey Circular 860, 87 p.

- Douglas, B.J., 1986, Deformational history of an outlier of metasedimentary rocks, Coast Plutonic Complex, British Columbia, Canada: Canadian Journal of Earth Sciences, v. 23, p. 813–826.
- Douglass, S.L., and Brew, D.A., 1985, Polymetamorphism in the eastern part of the Petersburg map area, southeastern Alaska, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1985: U.S. Geological Survey Circular 967, p. 89–92.
- Douglass, S.L., Webster, J.H., Burrell, P.D., Lanphere, M.L., and Brew, D.A., 1989, Major element chemistry, radiometric ages, and locations of samples from the Petersburg and parts of the Port Alexander and Sumdum quadrangles, southeastern Alaska: U.S. Geological Survey Open-File Report 89–527.
- Dover, J.H., 1984, Metamorphic rocks of the Ray Mountains, Tanana quadrangle, central Alaska; Structure and regional tectonic significance [abs.]: Geological Society of America, Abstracts and Programs, v. 16, no. 5, p. 279.
- Dover, J.H., 1985, Possible oroclinal bend in northern Cordilleran fold and thrust belt, east-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 352.
- Dover, J.H., 1985, Dispersion of Tintina fault displacement in interior Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 352.
- Dover, J.H., 1988, Geologic cross sections, *in* Weber, F.R., McCammon, R.B., Rinehart, C.D., Light, T.D., and Wheeler, K.L., eds., Geology and mineral resources of the White Mountains National Recreation Area, east-central Alaska: U.S. Geological Survey Open-File Report 88–284, Plate 11–B.
- Dover, J.H., 1992, Geologic map and fold-and-thrust-belt interpretation of the southeastern part of the Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1942, scale 1:1 00,000.
- Dover, J.H., 1994, Geology of part of east-central Alaska, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America. Yukon Flats basin (no. 27), Tintina trench (no. 28), and Kandik basin (no. 29).
- Dover, J.H., and Miyaoka, R.T., 1985, Major rock packages of the Ray Mountains, Tanana and Bettles quadrangles, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 32–36.
- Dover, J.H., and Miyaoka, R.T., 1985, Metamorphic rocks of the Ray Mountains; Preliminary structural analysis and regional tectonic implications, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 36–38.
- Dover, J.H., and Miyaoka, R.T., 1985, Metamorphic rocks and structure of the Ray Mountains, southeast borderland of Koyukuk basin, Alaska: EOS (Transactions of the American Geophysical Union), v. 66, no. 46, p. 1101–1102.
- Dover, J.H., and Miyaoka, R.T., 1988, Reinterpreted geologic map and fossil data, Charley River quadrangle, east-central Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–2004, scale 1:250,000.
- Dowsett, H.J., and Poore, R.Z., 1990, Pliocene paleoceanography of North Atlantic Deep Sea Drilling Project site 552; Application of planktonic foraminifera transfer function GSF18, *in* Gosnell, L.B., and Poore, R.Z., eds., Pliocene climates; Scenario for global warming: U.S. Geological Survey Open-File Report 90 64, p. 11–13.
- Doyle, M.C., 1983, A petrographic study of dike rocks in the Portland Peninsula area, southeastern Alaska and British Columbia: Bryn Mawr, Pennsylvania, Bryn Mawr College, Master's thesis, 29 p.
- Draper, D.S., and Johnston, A.D., 1992, Anhydrous PT phase relations of an Aleutian high-MgO basalt: An investigation of the role of olivine liquid reaction in the generation of arc high-alumina basalts: Contributions to Mineralogy and Petrology, v. 112, p. 501–519.
- Drechsler, J.S., Jr., and Dunbier, J., 1981, The Greens Creek ore deposit, Admiralty Island, Alaska [abs.]: Canadian Mining and Metallurgical Bulletin, v. 76, no. 833, p. 57.
- Drewes, H., Fraser, G.D., Synder, G.L., and Barnett, H.F., Jr., 1961, Geology of Unalaska Island and adjacent insular shelf, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 1028–S, p. 583–763.
- Drewes, H., Fraser, G.D., Snyder, G.L., and Barnett, H.F., Jr., 1961, Geology of Unalaska Island and adjacent insular shelf, Aleutian Islands, Alaska, *in* Investigation of Alaskan Volcanoes: U.S. Geological Survey Bulletin 1028–S, p. 583–676.
- Drinkwater, J.L., Brew, D.A., and Ford, A.B., 1989, Petrographic and chemical characteristics of the vanably deformed Speel River pluton, south of Juneau, southeastern Alaska, *in* Dover, J.H., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey in 1988: U.S. Geological Survey Bulletin 1903, p. 104–112.
- Drinkwater, J.L., Brew, D.A., and Ford, A.B., 1990, Petrographic and chemical data for the large Mesozoic and Cenozoic plutonic sills east of Juneau, southeastern Alaska: U.S. Geological Survey Bulletin 1918, 47 p.

- Drinkwater, J.L., Ford, A.B., and Brew, D.A., 1992, Magnetic susceptibilities and iron content of plutonic rocks across the Coast plutonic-metamorphic complex near Juneau, southeastern Alaska, *in* Bradley, D.W., and Dusel Bacon, C., eds., Geologic studies in Alaska by the U.S. Geological Survey in 1991: U.S. Geological Survey Bulletin 2041, p. 125–139.
- Drinkwater, J.L., Ford, A.B., and Brew, D.A., 1992, Magnetic susceptibility measurements and sample locations of granitic rocks from along a transect of the Coast Mountains near Juneau, Alaska: U.S. Geological Survey Open-File Report 92–724, 22 p.
- Drummond, K.J., 1974, Paleozoic Arctic margin of North America, *in* Burk, C.A., and Drake, C.L., eds., The geology of continental margins: Springer-Verlag, New York, p. 797–810.
- Drummond, K.J., 1986, Plate-tectonic map of the circum-Pacific region, northeast quadrant: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, scale: 1:10,000,000.
- DuBois, G.D., Wilson, F.H., and Shew, Nora, 1986, Map and tables showing potassium-argon age determinations and selected major-element chemical analyses from the Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 86–392, 1 sheet, scale 1:250,000.
- Duke, N.A., Nauman, C.R., and Newkirk, S.R., 1984, The Delta district, a mineralized lower Paleozoic marginal rift terrane in the east-central Alaska Range [abs.]: Geological Society of America Abstracts and Programs, v. 16, p. 279.
- Duke, N.A., Nauman, C.R., and Newkirk, S.R., 1988, Evidence for Late Cretaceous extensional uplift of the Yukon-Tanana crystalline terrane, eastern Alaska Range [abs.]: Geological Society of America Abstracts with Programs, v. 20, p. A 112.
- Dumond, D.E., 1979, People and pumice on the Alaska Peninsula, *in* Sheets, P.D., and Grayson, D.K., eds., Volcanic activity and human ecology: New York, Academic Press, p. 373–392.
- Dumoulin J.A., 1987, Sandstone composition of the Valdez and Orca groups, Prince William Sound, Alaska: U.S. Geological Survey Bulletin 1774, 37 p.
- Dumoulin, J.A., 1988, Stromatolite- and coated-grain-bearing carbonate rocks of the western Brooks Range, *in* Galloway. J.P., and Hamilton. T. D., eds. Geologic studies in Alaska by the U.S. Geological Survey in 1987: U.S. Geological Survey Circular 1016, p. 31–34.
- Dumoulin, J.A., and Harris, A., 1984, Carbonate rocks of central Seward Peninsula, Alaska [abs.]: Geological Society of America Abstracts with Programs, v.16, p. 280.
- Dumoulin, J.A., and Harris, A.G., 1987, Lower Paleozoic carbonate rocks of the Baird Mountains quadrangle, western Brooks Range, Alaska, *in* Tailleur, I.L., and Weimer, Paul, eds., Alaskan North Slope geology: Pacific Section, Society of Economic Paleontologists and Mineralogists, Bakersfield, CA, v. 50, p. 311–336.
- Dumoulin, J.A., and Miller, M.L., 1984, The Jeanie Point complex revisited, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 75–77.
- Dumoulin, J.A., and Till, A.B., 1985, Sea cliff exposures of metamorphosed carbonate and schist, northern Seward Peninsula, *in* Bartsch-Winkler, S., and Reed, K.M., eds.: accomplishments in Alaska during 1983: U.S. Geological Survey Circular 945, p. 18–22.
- Dunbier, J., Snow, G.G., and Butler, T.A., 1979, The Greens Creek project, Admiralty Island, Alaska, *in* Alaska's mineral and energy resources, economics and land status [abs.]: Alaska Geological Society Symposium Program and Abstracts, p. 40.
- Duncan, R.A., 1981, Hot spots in the southern oceans; An absolute frame of reference for motion of the Gondwana continents: Tectonophysics, v. 74, p. 29–42.
- Dusel-Bacon, C., 1991, Metamorphic history of Alaska: U.S. Geological Survey Open-File Report 91-556, 48 p.
- Dusel-Bacon, C., and 5 others, 1994, Distribution, facies, ages, and proposed tectonic associations of regionally metamorphosed rocks in east and southcentral Alaska: U.S. Geological Survey Professional Paper 1497–C, 59 p.
- Dusel-Bacon, C., and 6 others, 1989, Distribution, facies, ages, and proposed tectonic associations of regionally metamorphosed rocks in northern Alaska: U.S. Geological Survey Professional Paper 1497–A, 44 p., 2 sheets, scale 1: 1,000,000.
- Dusel-Bacon, C., and Aleinikoff, J.N., 1985, Petrology and tectonic significance of augen gneiss from a belt of Mississippian granitoids in the Yukon-Tanana terrane, east-central Alaska: Geological Society of America Bulletin, v. 96, p. 411–425.
- Dusel-Bacon, C., and Foster, H.L., 1983, A sillimanite gneiss dome in the Yukon crystalline terrane, east-central Alaska; Petrography and garnet-biotite geothermometry: U.S. Geological Survey Professional Paper 1170–E, p. E1–E25.

- Dusel-Bacon, C., and Hansen, V.L., 1992, High-pressure amphibolite-facies metamorphism and deformation within the Yukon-Tanana and Taylor Mountain terrane 3 eastern Alaska, *in* Bradley, D.W., and Dusel-Bacon, C., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1991: Geological Survey Bulletin 2041, p. 140–158.
- Dusel-Bacon, C., Brew, D.A., and Douglass, S.L., Metamorphic facies map of southeastern Alaska; Distribution, facies, and ages of regionally metamorphosed rocks: U.S. Geological Survey Professional Paper 1497–D (in press).
- Dusel-Bacon, C., and 5 others, 1993, Distribution, facies, ages, and proposed tectonic associations of regionally metamorphosed rocks in east-and south-central Alaska: U.S. Geological Survey Professional Paper 1497–C, p. C1–C73.
- Dusel-Bacon, C., Doyle, E.O., and Box, S.E., 1994, Distribution, facies, ages, and proposed tectonic associations of regionally metamorphosed rocks in southwestern Alaska and the Alaska Peninsula: U.S. Geological Survey Professional Paper 1497–B (in press).
- Dutro, J.T., Jr., 1952, Stratigraphy and paleontology of the Noatak and associate formations, Brooks Range, Alaska, *in* Naval Petroleum Reserve No. 4, Alaska: U.S. Geological Survey Geological Investigations, Special Report 33, 154 p.
- Dutro, J.T., Jr., 1970, Pre-Carboniferous carbonate rocks, *in* Adkison, W.L., and Brosgé, W.M., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, American Association of Petroleum Geologists, p. Ml–M17.
- Dutro, J.T., Jr., 1979, Alaska, *in* The Mississippian and Pennsylvanian (Carboniferous) systems in the United States: U.S. Geological Survey Professional Paper 1110 M–DD, p. DD1–DD16.
- Dutro, J.T., Jr., 1981, Geology of Alaska bordering the Arctic Ocean, *in* Nairn, A.E.M., Churkin, M., Jr., and Stehli, F.G., eds., The ocean basins and margins, v. 5: The Arctic Ocean: New York, Plenum Press, p. 21–36.
- Dutro, J.T., Jr., 1987, Revised megafossil biostratigraphic zonation for the Carboniferous of northern Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, no. 50. vols. 1 and 2, p. 359–364.
- Dutro, J.T., Jr., and Harris, A.G., 1987, Some stratigraphic and paleontologic constraints on tectonic modelling of the Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 374.
- Dutro, J.T., Jr., and Jones, D.L., 1984, Paleotectonic setting of the Carboniferous of Alaska: International Congress on Carboniferous Stratigraphy and geology, v. 9, no. 3, p. 229–234.
- Dutro, J.T., Jr., and Patton, W.W., Jr., 1981, Lower Paleozoic platform sequence in the Medfra quadrangle, west-central Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B42–B44.
- Dutro, J.T., Jr., and Patton, W.W., Jr., 1982, New Paleozoic formations in the northern Kuskokwim Mountains, west-central Alaska, in Stratigraphic notes, 1980-1982: U.S. Geological Survey Bulletin 1529–H, p. H13–H22.
- Dutro, J.T, Jr., and Payne, T.G, 1957, Geologic map of Alaska: U.S Geological Survey, scale 1:2,500,000.
- Dutro, J.T., Jr., Brosgé, W.P., and Reiser, H.N., 1972, Significance of recently discovered Cambrian fossils and reinterpretation of Neruokpuk Formation, northeastern Alaska: American Association of Petroleum Geologists Bulletin, v. 56, p. 808–815.
- Dutro, J.T., Jr, Brosgé, W.P., and Reiser, H.N., 1977, Upper Devonian depositional history, central Brooks Range, Alaska: U.S. Geological Survey Circular 751–B, p. B16–B18.
- Dutro, J.T., Jr., Brosgé, W.P., and Lanphere, M.A., and Reiser, H.N., 1976, Geologic significance of Doonerak structural high, central Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 60, no. 6, p. 952–961.
- Dutro, J.T., Jr., Brosgé, W.P., Reiser, H.N., and Detterman, R.L., 1979, Beaucoup Formation, a new Upper Devonian stratigraphic unit in the central Brooks Range, northern Alaska, *in* Sohl, N.F., and Wright, W.B., eds., Changes in stratigraphic nomenclature by the U.S. Geological Survey: U.S. Geological Survey Bulletin 1482–A, p. A63–A69.
- Dutro, J.T., Jr., Palmer, A.R., Repetski, J.E., and Brosgé, W.P., 1984, Middle Cambrian fossils from the Doonerak anticlinorium, central Brooks Range, Alaska: Journal of Paleontology, v. 58, p. 1364–1371.
- Eakins, G.R., 1975, Uranium investigations in southeastern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 44, 62 p.
- Eakins, G.R., and 6 others, 1983, Alaska's mineral industry 1982: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 31, 63 p.
- Eakin, G.R., Gilbert, W.G., and Bundtzen, T.K., 1978, Preliminary bedrock geology and mineral resource potential of west-central Lake Clark quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–118, scale 1:125,000, 15 p.

- Eakins, G.R., Bundtzen, T.K., Lueck, L.L., Green, C.B., Gallagher, J.L., and Robinson, M.S., 1985, Alaska's mineral industry, 1984: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 38, 57 p.
- Eakin, H.M., 1916, The Yukon-Koyukuk region, Alaska: U.S. Geological Survey Bulletin 631, 88 p.
- East, J., 1982, Preliminary geothermal investigations at Manley Hot Springs, Alaska: Fairbanks, University Of Alaska Geophysical Institute Report UAG R-290, 76 p.
- Easterbrook, D.J., Briggs, N.D., Westgate, J.A., and Gorton, M.P., 1981, Age of the Salmon Springs glaciation in Washington: Geology, v. 9, p. 87–93.
- Eberlein, G.D., and Lanphere, M.A., 1988, Precambrian rocks of Alaska; A review, *in* Harrison, J.E., and Peterman, Z.E., eds., Introduction to the correlation of Precambrian rock sequences: U.S. Geological Survey Professional Paper 1241B, 18 p.
- Eberlein, G.D., and Churkin, M., Jr., 1970, Tlevak basalt, west coast of Prince of Wales Island, southeastern Alaska, *in* Cohee, G.V., Bates, R.G., and Wright, W.B., eds., Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1968: U.S. Geological Survey Bulletin 1294–A, p. A25–A28.
- Eberlein, G.D., and Lanphere, M.A., 1988, Precambrian rocks of Alaska: U.S. Geological Survey Professional Paper 1241–B, p. Bl–B18.
- Eberlein, G.D., Chapman, R.M., Foster, H. L., and Gassaway, J. S., 1977, Map and table describing known metalliferous and selected nonmetalliferous mineral deposits in central Alaska: U.S. Geological Survey Open-File Report 77–168D, 1 sheet, scale 1:1,000,000, 132 p.
- Eberlein, G.D., Churkin, M., Jr., Carter, C., Berg, H.C., and Ovenshine, A.T., 1983, Geology of the Craig quadrangle, Alaska: U.S. Geological Survey Open-File Report 83–91, scale 1:250,000, 53 p.
- Eckelmann, W.R., Fisher, W.L., and DeWitt, R.J., 1976, Prediction of fluvialdeltaic reservoir, Prudhoe Bay field, Alaska, *in* Miller, T.P., ed., Symposium on recent and ancient sedimentary environments in Alaska: Anchorage, Alaska Geological Society, p. B1–B8.
- Economides, M.J., Morris, C.W., and Campbell, D.A., 1985, Evaluation Of the Makushin geothermal reservoir, Unalaska Island, *in* Proceedings of the 10th Workshop on Geothermal Reservoir Engineering: Stanford, Calif., Stanford Geothermal Program, Report TR–84, p. 227–232.
- Edwards, M.E., and McDowell, P.F., 1989, Quaternary deposits at Birch Creek, northeastern interior Alaska; The possibility of climatic reconstruction, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 48–50.
- EEZ-SCAN Scientific Staff, 1991, Atlas of the U.S. Exclusive Economic Zone, Bering Sea: U.S. Geological Survey Miscellaneous Investigations Series 12053, 145 p.
- Eggler, D.H., 1972, Water-saturated and undersaturated melting relations in a Paricutin andesite and an estimate of water content in the natural magma: Contributions to Mineralogy and Petrology, v. 34, p. 261–171.
- Eggler, D.H., 1978, The effect of CO₂ upon partial melting of peridotite in the system Na₂O-CaO-AI₂03-MgO-SiO₂-CO₂ to 35 kb, with an analysis of melting in a peridotite-H₂O-CO₂ system: American Journal of Science, v. 278, p. 305–343
- Eggler, D.H., 1989, Influence of H₂O and CO₂ on melt and fluid chemistry in subduction zones, in Hart, S.R., and Gulen, L., eds., Crust/mantle recycling at convergence zones: Dordrecht, Kluwer Academic, v. 258 p. 97–104.
- Eggler, D.H., and Holloway, J.R., 1977, Partial melting of peridotite in the presence of H₂O and CO₂; Principles and review, *in* Dick, H.J.B., ed., Magma genesis: Oregon Department of Mineral Industries Bulletin, v. 96, 169–183.
- Ehm, A., 1983, Oil and gas basins map of Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 32, 1 sheet, scale 1:2,500,000.
- Ehm, A., and Tailleur, I.L., 1985, Refined names for Brookian elements in northern Alaska: American Association of Petroleum Geologists Bulletin, v.69, p.664.
- Ehrenbard, R.L., Hoekstra, P., and Rozenberg, G.S., 1983, Transient electromagnetic soundings for permafrost mapping, in Proceedings, Permafrost, Fourth International Conference, Fairbanks, Alaska, July 17 22., 1983: Washington, D.C., National Academy Press, p. 272–277.
- Einaudi, M.T., and Hitzman, M.W., 1986, Mineral deposits in northern Alaska: Introduction: Economic Geology, v. 81, p. 1583–1591.

- Eisbacher, G.H., 1974, Evolution of successor basins in the Canadian Cordillera, *in* Dott, R.H., Jr., and Shaver, R.H., eds., Modern and ancient geosynclinal sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 274–291.
- Eisbacher, G. H., 1976, Sedimentology of the Dezadeash llysch and its implications for strike-slip faulting along the Denali fault, Yukon Territory and Alaska: Canadian Journal of Earth Sciences, v. 13, p. 1495–1513.
- Eisbacher, G.H., 1983, Devonian-Mississippian sinistral transcurrent faulting along the cratonic margin of western North America; A hypothesis: Geology, v. 11, p. 7–10.
- Eisbacher, G.H., 1985, Pericollisional strike-slip faults and syn-orogenic basins, Canadian Cordillera, *in* Biddle, K.T., and Christie-Blick, N., eds., Strike-slip deformation, basin formation, and sedimentation: Society of Economic Paleontologists and Mineralogists Special Publication 37, p. 265–282.
- Eittreim, S.L., Grantz, A., and Whitney, O.T., 1978, Isopach maps of sediment thickness in Hope basin, southeast Chukchi Sea, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-906, scale 1:1,000,000.
- Elassal, A.A., and Caruso, V.M., 1983, Digital elevation models: U.S. Geological Survey Circular 895-B, 40 p.
- Elder, W.P., and Box, S.E., 1992, Late Cretaceous inoceramid bivalves of the Kuskokwim Basin, southwestern Alaska, and their implications for basin evolution: Journal of Paleontology, Memoir 26, 39 p.
- Elias, M.M., and Vosburgh, R.M., 1946, Terrain and permafrost in the Galena area: U.S. Geological Survey Permafrost Program Progress Report 1, 25 p.
- Elis, A.J., and Mahon, W.A.J., 1978, Chemistry and geothermal systems: New York, Academic Press, 342 p.
- Ellersieck, I., Mayfield, C.F., Tailleur, I.L., and Curtis, S.M., 1979, Thrust sequences in the Misheguk Mountain quadrangle, Brooks Range, Alaska: U.S. Geological Survey Circular 804–B, p. B8–B9.
- Ellersieck, I., Tailleur, I.L., Mayfield, C.F., and Curtis, S.M., 1979, A new find of Upper Cretaceous or Tertiary sedimentary rocks in the Noatak Valley, *in* Johnson, K.M., and Williams, J.R., eds., The U.S. Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B13.
- Ellersieck, Inyo, Curtis, S.M., Mayfield, C.F., and Tailleur, I.L., 1982, Reconnaissance geologic map of south-central Misheguk Mountain quadrangle, Alaska: U.S. Geological Survey Open-File Report 82–612, 37 p., 2 sheets, scale 1:63,360.
- Ellersieck, Inyo., Curtis, S.M., Mayfield, C.F., and Tailleur, I.L., 1984, Reconnaissance geologic map of south-central Misheguk Mountain quadrangle: Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1504, scale 1:63,360.
- Ellersieck, I., Curtis, S.M., Mayfield, C.F., and Tailleur, I.L., 1990, Reconnaissance geologic map of the De Long Mountains A-2 and B-2 quadrangles and part of the C-2 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1931, scale 1:63,360.
- Elliott, R.L., Koch, R.D., and Robinson, S.W., 1981, Age of basalt flows in the Blue River Valley, Bradfield Canal quadrangle, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B115–B116.
- Elliott, R.L., Smith, J.G., and Hudson, T., 1976, Upper Tertiary high-levelplutons of the Smeaton Bay area, southeastern Alaska: U.S. Geological Survey Open-File Report 76–507, 16 p.
- Elvers, D.J., Mathewson, C.C., Kohler, R.E., and Moses, R.L., 1967, Systematic ocean surveys by the USC&GSS Pioneer, 1961-1963: Environmental Science Services Administration, Coast and Geodetic Survey Operational Data Report C&GSDR-1.
- Embrey, A.F., and Dixon, J., 1990, The breakup unconformity of the Amerasia Basin, Arctic Ocean: Evidence from Arctic Canada: Geological Society of America Bulletin, v. 102, p. 1526–1534.
- Energy Information Administration, 1987, U.S. crude oil, natural gas, and natural gas liquids reserves—1986 annual report: U.S. Department of Energy, Energy Information Administration Report DOE/EIA-0216(86), 103 p.
- Engdahl, E.R. and Billington, S., 1986, Focal depth determination of central Aleutian earthquakes: Bulletin of the Seismological Society of America, v. 76, p. 77–93.
- Engdahl, E.R., 1973, Relocation of intermediate depth earthquakes in the central Aleutians by seismic ray tracing: Nature, v. 245, p. 23–25.
- Engebretson, D.C., 1982, Relative motions between oceanic and continental plates in the Pacific Basin: Stanford, Calif., Stanford University, Ph.D. dissertation, 211 p.

- Engebretson, D.C., and Wallace, W.K., 1985, Preliminary paleomagnetism and tectonic interpretation of the Tikchik terrane, southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 354.
- Engebretsen, D.C., Cox, A., and Gordon, R.G., 1985, Relative motions between oceanic and continental plates in the Pacific basin: Geological Society of America Special Paper 206, 59 p.
- Engstrom, D.R., Hansen, B.C.S., and Wright, J. E., Jr., 1990, A possible Younger Dryas record in southeastern Alaska: Science, v. 250, p. 1383–1385.
- Epstein, A.G., Epstein, J.B., and Harris, L.D., 1977, Conodont color alteration; An index to organic metamorphism: U.S. Geological Survey Professional Paper 995, 27 p.
- Erdmer, P., and Armstrong, R.L., 1988, Permo–Triassic isotopic dates for blueschist, Ross River area, Yukon: Canada, Exploration and Geological Services Division, Yukon Indian and Northern Affairs, Yukon Geology, p. 33–36.
- Erdmer, P., and Helmstaedt, H., 1983, Eclogite from central Yukon; A record of subduction at the western margin of ancient North America: Canadian Journal of Earth Sciences, v. 20, p. 1389–1408.
- Erickson, R.L., 1982, Characteristics of mineral deposit occurrences: U.S. Geological Survey Open-File Report 82–795, 248 p.
- Ervin, L.D., 1981, The geologic significance of compaction gradient plots of wells in the National Petroleum Reserve; Alaska: Report prepared for Husky Oil NPR Operations, Inc., under contract to U.S. Geological Survey Office of National Petroleum Reserve, Alaska, 21 p.
- Evans, B.W., and Brown, E.H., 1987, Reply on 'Blueschists and eclogites': Geology, v. 15, p. 773-775.
- Evans, B.W., and Patrick, B.E., 1987, Phengite (3T) in high-pressure metamorphosed granitic orthogneisses, Seward Peninsula, Alaska: Canadian Mineralogist, v. 25, p. 141–158.
- Evans, B.W., Patrick, B.E., and Irving, A.J., 1987, Compositional control of blue schist/greenschist and genesis of Seward Peninsula metabasites [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 375.
- Evans, C.A., 1985, Magmatic "metasomatism" in peridotites from the Zambales ophiolite: Geology, v. 13, p. 166–169.
- Evernden, J.F., Curtis, G.H., Obradovich, J., and Kistler, R., 1961, On the evaluation of glauconite and illite for dating sedimentary rocks by the potassium-argon method: Geochimica et Cosmochimica Acta, v. 23, p. 78–99.
- Ewart, A., 1979, A review of the mineralogy and chemistry of Tertiary-Recent dacitic, latitic, rhyolitic, and related salic volcanic rocks, in Barker, F., ed., Trondhjemites, dacites, and related rocks: New York, Elsevier Scientific Publishing Co., p. 13–22.
- Eyles, C.H., 1988, A model for striated boulder pavement formation on glaciated, shallow-marine shelves; An example from the Yakataga Formation, Alaska: Journal of Sedimentary Petrology, v. 58, p. 62–71.
- Eyles, C.H., and Eyles, N., 1989, The upper Cenozoic White River "tillites" of southern Alaska; Subaerial slope and fandelta deposits in a strike-slip setting: Geological Society of America Bulletin, v. 101, p. 1091–1102.
- Eyles, C.H., and Lagoe, M.B., 1990, Sedimentation patterns and facies geometries on a temperate glacially-influenced continental shelf The Yakataga Formation, Middleton Island, Alaska, *in* Dowdeswell, J.A., and Scourse, J.D., eds., Glacimarine environments Processes and sediments: Geological Society of London Special Publication 53, p. 363–386.
- Eyles, C.H., Eyles, N., and Lagoe, M.B., 1991, The Yakataga Formation A late Miocene to Pleistocene record of temperate glacial marine sedimentation in the Gulf of Alaska, *in* Anderson, J.B., and Ashley, G.M., eds., Glacial marine sedimentation: Geological Society of America Special Paper 261, p. 159–180.
- Eyles, N., 1987, Late Pleistocene debris-flow deposits in large glacial lakes in British Columbia and Alaska: Sedimentary Geology, v. 53, p. 33–71.
- Eyles, N., and Lagoe, M.B., 1989, Sedimentology of shell-rich deposits (coquinas) in the glaciomarine upper Cenozoic Yakataga Formation, Middleton Island, Alaska: Geological Society of America Bulletin, v. 101, p. 129–142.
- Eyles, N., Vossler, S.M., and Lagoe, M.B., 1992, Ichnology of a glaciallyinfluenced continental shelf and slope—the Late Cenozoic Gulf of Alaska (Yakataga Formation): Palaeogeography, Palaeoclimatology, Palaeoecology, v. 94, p. 193–221.
- Fabiano, E.B., and Peddie, N.W., 1969, Grid values of total magnetic intensity, International Geomagnetic Reference Field–1965: U.S. Environmental Science Services Administration Technical Report C and CS 38, 55 p.
- Farmer, G.L., Ayuso, R., and Plafker, G., 1993, A Coast Mountains provenance for the Valdez and Orca Groups, southern Alaska, based on Nd, Sr, and Pb isotopic evidence: Earth and Planetary Science Letters, v. 116, p. 9–12.

- Farmer, G.L., Barker, F., and Plafker, G., 1987, A Nd and Sr isotopic study of Mesozoic and early Tertiary granitic rocks in south-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, no. 6, p. 376.
- Farrington, J.W. and 5 others, 1988, Bitumen molecular matunty parameters in the Ikpikpuk well, Alaskan North Slope, *in* Mattavelli, L., and Novelli, L., eds., Advances in organic chemistry 1987, Part 1, Organic geochemistry in petroleum exploration: Organic Geochemistry, v. 13, p. 303–310.
- Fenner, C.N., 1923, The origin and mode of emplacement of the great tuff deposit of the Valley of Ten Thousand Smokes: National Geographic Society Contribution Technical Papers, Katmai Series, no. 1, 74 p.
- Fenner, C.N., 1926, The Katmai magmatic province: Journal of Geology, v. 34, p. 673-772.
- Fernald, A.T., 1960, Geomorphology of the upper Kuskokwim region, Alaska: U.S. Geological Survey Bulletin 1071–G, p. 191–279.
- Fernald, A.T., 1962, Radiocarbon dates relating to a widespread volcanic ash deposit, eastern Alaska: U.S. Geological Survey Professional Paper 450–B, p. B29–B30.
- Fernette, G., and Cleveland, G., 1984, Geology of the Miss Molly molybdenum prospect, Tyonek C-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 86, p. 35–41.
- Ferrians, O.J., Jr., 1965, Permafrost map of Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–445, scale 1:2,500,000.
- Ferrians, O.J., Jr., 1989, Glacial Lake Atna, Copper River Basin, Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 85–88.
- Ferrians, O.J., Jr., and Hobson, G.D., 1973, Mapping and predicting permafrost in North America; A review, 1963-1973, in Permafrost, North American contribution to the Second International Conference, Yakutsk, U.S.S.R., July 13-28, 1973: Washington, D.C., National Academy of Sciences, p. 479–498.
- Ferrians, O.J., Jr., Kachadoorian, R., and Greene, G.W., 1969, Permafrost and related engineering problems in Alaska: U.S. Geological Survey Professional Paper 678, 37 p.
- Ferrians, O.J., Jr., Nichols, D.R., and Williams, J.R., 1983, Copper River Basin, *in* Péwé, T.L., and Reger, R.D., eds., Richardson and Glenn Highways, Alaska; Guidebook to permafrost and Quaternary geology: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 1, p. 137–175.
- Ferry, J.M., and Spear, F.S., 1978, Experimental calibration of the partitioning of Fe and Mg between biotite and garnet: Contributions to Mineralogy and Petrology, v. 66, no. 2, p. 113–117.
- Finch, R.H., 1934, Shishaldin Volcano, Proceedings of the Fifth Pacific Science Conference, Canada: Toronto, University of Toronto Press, v. 3, p. 2369–2376.
- Finch, R.H., 1935, Akutan Volcano: Zeitschnft fur Vulkanologie, v. 16, p. 155–160.
- Fisher, D., and Byrne, T., 1987, Structural evolution of underthrusted sediments, Kodiak Islands, Alaska: Tectonics, v. 6, p. 775–793.
- Fisher, M.A., 1980, Petroleum geology of Kodiak Shelf, Alaska: American Association of Petroleum Geologists Bulletin, v. 64, p. 1140–1157.
- Fisher, M.A., 1981, Location of the Border Ranges fault southwest of Kodiak Island, Alaska: Geological Society of America Bulletin, v. 92, p. 19–30.
- Fisher, M.A., 1982, Petroleum geology of the Norton basin, Alaska: American Association of Petroleum Geologists Bulletin, v. 66, no. 3, p. 286–301.
- Fisher, M.A., and Bruns, T.R., 1987, Structure of Pre-Mississippian rocks beneath the Coastal Plain, *in* Bird, K., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 245–248.
- Fisher, M.A., and Magoon, L.B., 1978, Geologic framework of Lower Cook Inlet, Alaska: American Association of Petroleum Geologists Bulletin, v. 62, p 373–402.
- Fisher, M.A., and Magoon, L.B., 1982, Geology, structure, and petroleum potential of the lower Cook Inlet-Shelikof Strait region, *in* Bruns, T.R., ed., Hydrocarbon resource report for proposed OCS lease sale 88: Southeastern Alaska, Northern gulf of Alaska, Cook Inlet, and Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 82–928, p. 53–72.

- Fisher, R.L. and Sclater, J.G., 1983, Tectonic evolution of the southwest Indian Ocean since the mid-Cretaceous; Plate motions and stability of the pole of Antarctica/Africa for at least 80 Myr.: Geophysical Journal of the Royal Astronomical Society, v. 73, p. 553–576.
- Fisher, M.A., and von Huene, R., 1980, Structure of the upper Cenozoic strata beneath Kodiak Shelf, Alaska: American Association of Petroleum Geologists Bulletin, v. 64, p. 1014–1033.
- Fisher, M.A., and von Huene, R., 1982, Geologic structure of the continental shelf southeast and southwest of Kodiak Island, Alaska, from 24–fold seismic data: U.S. Geological Survey Miscellaneous Field Studies Map MF–1460, 1 sheet, scale 1:500,000.
- Fisher, M.A., and von Huene, R., 1982, Map showing the geological structure of the continental shelf southeast and southwest of Kodiak Island, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1457.
- Fisher, M.A., and von Huene, R., 1984, Geophysical investigation of a suture zone; The Border Ranges fault of southern Alaska: Journal of Geophysical Research, v 89. p. 11333–11351.
- Fisher, M.A., and von Huene, Roland, 1980, Structure of the upper Cenozoic strata beneath Kodiak Shelf, Alaska: American Association of Petroleum Geologists Bulletin, v. 64, p. 1014–1033.
- Fisher, M.A., Brocher, T.M., Nokleberg, W.J., Plafker, G., and Smith, G.L., 1989, Seismic reflection images of the crust of the northern part of the Chugach terrane, Alaska: Results of a survey for the Trans-Alaska Crustal Transect (TACT): Journal of Geophysical Research, v. 94, p. 4424–4440.
- Fisher, M.A., Bruns, T.R., and von Huene, R., 1981, Transverse tectonic boundaries near Kodiak Island, Alaska: Geological Society of America Bulletin, v.92, p. 10–18.
- Fisher, M.A., Bruns, T.R., and von Huene, R., 1981, Transverse tectonic boundaries near Kodiak Island, Alaska: Geological Society of America Bulletin, v. 91, p. 218–224.
- Fisher, M.A., Detterman, R.L., and Magoon, L.B., 1987, Tectonics and petroleum geology of dhe Cook-Shelikof Basin, southern Alaska, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the contineltal margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 6, p. 213–228.
- Fisher, M.A., Patton, W.W., Jr., and Holmes, M.L., 1982, Geology of Norton basin and continental shelf beneath northwestern Bering Sea, Alaska: American Association of Petroleum Geologists Bulletin, v. 66, p. 225–285.
- Fisher, M.A., von Huene, R., and Smith, G.L., 1987, Reflections from midcrustal rocks within the Mesozoic subduction complex near the eastern Aleutian Trench: Journal of Geophysical Research, v. 92, p. 7907–7915.
- Fisher, M.A., Childs, J.R., and Magistrale, H.W., 1982, Free-air gravity map, Norton basin, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1460, scale 1:250,000.
- Fisher, M.A., Moore, G.W., von Huene, R., and McClellan, P.H., 1981, Map of marine magnetic data from Shelikof Strait to Sutwik Island, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1227, scale 1:500,000.
- Fisher, M.A., Patton, W.W., and Holmes, M.L., 1981, Geology and Petroleum potential of the Norton Bay area, Alaska: U.S. Geological Survey, Open-File Report 81–1316, p. 51.
- Fisher, M.A., Patton, W.W., and Holmes, M.L., 1982, Geology of Norton basin and continental shelf beneath the northwestern Bering Sea, Alaska: American Association of Petroleum Geologists Bulletin, v. 66, no. 3, p. 255–285.
- Fisher, M.A., von Huene, Richard, and Steele, W.C., 1983, Marine free-air gravity map of the western Gulf of Alaska, Lower Cook Inlet, and Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 83–52, 2 sheets, scale 1:500,000.
- Flower, R.H., 1941, Cephalopods from the Seward Peninsula of Alaska: Bulletin of American Paleontology, v. 27, no. 102, 22 p.
- Flower, R.H., 1946, Alaskoceras and the Plectoceratidae: Journal of Paleontology, v. 20, no. 6, p. 620-624.
- Foley, J.Y., 1982, Alkaline igneous rocks in the eastern Alaska Range; Short notes on Alaskan geology, 1981: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 73, p. 1–5.
- Foley, J.Y., 1992, Ophiolitic and other mafic-ultramafic metallogenic provinces in Alaska (west of the 141st mendian): U.S. Geological Survey Open-File Report OF 92–20B, 55 p.
- Foley, J., and Barker, J.C., 1981, Tungsten investigations of the VABM Bend vicinity, Charley River and Eagle quadrangles, eastern Alaska: U.S. Bureau of Mines Open-File Report 29–81, 22 p.

- Foley, J.Y., and McDermott, M.M., 1983, Podiform chromite occurrences in the Caribou Mountain and lower Kanuti River areas, central Alaska: U.S. Bureau of Mines Information Circular 1C–8915, 27 p.
- Foley, J.Y., Barker, J.C., and Brown, L.L., 1985, Critical and strategic mineral investigation in Alaska: Chromium: U.S. Bureau of Mines Open File Report 97–85, 54 p.
- Foley, J.Y., Dahlin, D.C., Barker, J.C., and Mardock, C.L., 1991, Chromite deposits in the western Brooks Range, Alaska: U.S. Bureau of Mines Information Circular.
- Foley, J.Y., Hinderman, T., Kirby, D.E., and Mardock, C.L., 1984, Chromite occurrences in the Kaiyuh Hills, west-central Alaska: U.S. Bureau of Mines Open-File Report 178–84, 20 p.
- Folger, P.F., and Schmidt, J.M., 1986, Geology of the carbonate-hosted Omar copper prospect, Baird Mountains, Alaska: Economic Geology, v. 81, p. 1690–1695.
- Forbes, R.B., 1982, Bedrock geology and petrology of the Fairbanks mining district, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 169, 68 p.
- Forbes, R.B., and Brown, J.M., 1961, A preliminary map of the bedrock geology of the Fairbanks mining district, Alaska: Alaska Division of Mines and Minerals Mineral Investigations Report 194–1, scale 1:63,360.
- Forbes, R.B., and Engels, J.C., 1970, 40 K/ 40 Ar age relations of the Coast Range batholith and related rocks of the Juneau Ice Field area, Alaska: Geological Society of America Bulletin, v. 81, no. 2, p. 579–584.
- Forbes, R.B., and Lanphere, M.A., 1973, Tectonic significance of mineral ages of blueschists near Seldovia, Alaska: Journal of Geophysical Research, v. 78, no. 8, p. 1383–1386.
- Forbes, R.B., and Weber, F.R., 1975, Progressive metamorphism of schists recovered from a deep drill hole near Fairbanks, Alaska: U.S. Geological Survey Journal of Research, v. 3, no. 6, p. 647–657.
- Forbes, R.B., and Weber, F.R., 1982, Bedrock geologic map of the Fairbanks mining district: Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–170, scale 1:63,360.
- Forbes, R.B., Evans, B.W., and Thurston, S.P., 1984, Regional progressive high-pressure metamorphism, Seward Peninsula, Alaska: Journal of Metamorphic Geology, v. 2, p. 43–54.
- Forbes, R.B., Evans, B.W., Thurston, S.P., and Armstrong, R.L., 1984: Comparative Rb/Sr-K/Ar age data from the Seward Peninsula and Brooks Range, Alaska, blueschist terranes; A progress report [abs.]: Geological Society of America Abstracts and Programs, v. 16, p. 284.
- Forbes, R.B., Gilbert, W.G., and Redman, E.C., 1987, The Four Winds complex; A newly recognized Paleozoic metamorphic complex in southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 378.
- Forbes, R.B., Hamilton, T., Tailleur, I.L., Miller, T.P., and Patton, W.W., Jr., 1971, Tectonic implications of blueschists facies metamorphic terranes in Alaska: Nature; Physical Science, v. 234, p. 106–108.
- Forbes, R.B., Ray, D.K., Katsura, T., Matsumoto, H., Haramura, H., and Furst, M.J., 1969, The comparative chemical compositions of continental vs. island arc andesites in Alaska, *in* McBirney, A.R., ed., Proceedings of the Andesite Conference: Oregon State Department of Geology and Mineral Industries, Bulletin 65, p. 111–120.
- Forbes, R.B., Smith, T.E., and Turner, D.C., 1974, Comparative petrology and structure of the McLaren, Rugy Range, and Coast Range belts; Implications for offset along the Denali fault system[abs.]: Geological Society of America Abstracts with Programs, v. 6, p. 177.
- Forbes, R.B., Turner, D.L., Stout, J.H., and Smith, T.E., 1973, Cenozoic offset along the Denali fault, Alaska [abs.]: Eos (Transactions, American Geophysical Union), v. 54, p. 495.
- Forbes, R.B., Pilkington, H.D., and Hawkins, D.B., 1968, Gold gradients and anomalies in the Pedro Dome-Cleary Summit area, Fairbanks district, Alaska: U.S. Geological Survey Open-File Report 68–101, 43 p.
- Ford, A.B., and Brew, D.A., 1973, Preliminary geologic and metamorphicisograd map of the Juneau B-2 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Investigations Map MF–527, 1 sheet, scale 1:31,680.
- Ford, A.B., and Brew, D.A., 1976, Chemical nature of Cretaceous greenstone near Juneau, Alaska *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B88–B90.
- Ford, A.B., and Brew, D.A., 1977, Preliminary geologic and metamorphic-isograd map of the northern parts of the Juneau A-1 and A-2 quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-847, 1 sheet, scale 1:31,680.

- Ford, A.B., and Brew, D.A., 1977, Truncation of regional metamorphic zonation pattern of the Juneau, Alaska, area by the Coast Range batholith, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B85–B87.
- Ford, A.B., and Brew, D.A., 1981, Orthogneiss of Mount Juneau; An early phase of Coast Mountains plutonism involved in Barrovian regional metamorphism near Juneau, *in* Albert, N.R.D., and Hudson, T.L., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B99–B102.
- Ford, A.B., and Brew, D.A., 1987, Major-element chemistry of metabasalts of the Juneau-Haines region, southeastern Alaska: U.S. Geological Survey Circular 1016, p. 150–155.
- Ford, A.B., and Brew, D.A., 1987, The Wright Glacier volcanic plug and dike swarm, southeastern Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 116–118.
- Fosse, E.L., 1946, Exploration of the copper-sulfur deposit, Khayyam and Stumble-On properties, Prince of Wales Island, Alaska: U.S. Bureau of Mines Report of Investigations 3942, 8 p.
- Foster, H.L., 1967, Geology of the Mount Fairplay area, Alaska: U.S. Geological Survey Bulletin 1241-B, p. 1-18.
- Foster, H.L., 1969, Asbestos occurrence in the Eagle C-4 quadrangle, Alaska: U.S. Geological Survey Circular 611, 7 p.
- Foster, H.L., 1970, Reconnaissance geologic map of the Tanacross quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–593, scale 1:250,000.
- Foster, H.L., 1975, Significant platinum values confirmed in ultramafic rocks of the Eagle C-3 quadrangle, *in* Yount, M.E., ed., United States Geological Survey Alaska Program 1975: U.S. Geological Survey Circular 722, p. 42.
- Foster, H.L., compiler, 1976, Geologic map of the Eagle quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–922, scale 1:250,000.
- Foster, H.L., 1981, A minimum age for Prindle Volcano, Yukon-Tanana Upland, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B37–B38.
- Foster, H.L., and 7 others, 1976, The Alaskan mineral resource maps of the Tanacross quadrangle, Alaska: U.S. Geological Survey Circular 734, 23 p.
- Foster, H.L., and 6 others, 1979, The Alaskan Mineral Resource Assessment Program: Background information to accompany folio of geologic and mineral resource maps of the Big Delta quadrangle, Alaska: U.S. Geological Survey Circular 783, 19 p.
- Foster, H.L., and 6 others, 1982, Radiolaria indicate Carboniferous and Triassic ages for chert in the Circle Volcanics, Circle quadrangle: U.S. Geological Survey Professional Paper 1375, p. 78.
- Foster, H.L., and Clark, S.H.B., 1970, Geochemical and geologic reconnaissance of a part of the Fortymile area, Alaska: U.S. Geological Survey Bulletin 1312–M, 29 p.
- Foster, H.L., and Cushing, G.W., 1985, Tertiary(?) folding in the Tanacross quadrangle, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 38–40.
- Foster, H.L., and Keith, T.E.C., 1974, Ultramafic rocks of the Eagle quadrangle, east-central Alaska: U.S. Geological Survey Journal of Research, v.2, no.6, p. 657–669.
- Foster, H.L., and O'Leary, R.M., 1982, Gold found in bedrock of Lost Chicken Creek, gold placer mine, Fortymile area, Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 62–63.
- Foster, H.L., Donato, M.M., and Yount, M.E., 1978, Petrographic and chemical data on Mesozoic granitic rocks of the Eagle quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–253, 29 p., 3 maps, scale 1:250,000.
- Foster, H.L., Forbes, R.B., and Ragan, D.M., 1966, Granulite and peridotite inclusions from Prindle Volcano, Yukon-Tanana Upland, Alaska *in* Geological Survey Research 1966: U.S. Geological Survey Professional Paper 550–B, p. B115–B119.
- Foster, H.L., Cushing, G.W., Keith, T.E.C., and Laird, J., 1985, Early Mesozoic tectonic history of the Boundary area, east-central Alaska: Geophysical Research Letters, v. 12, no. 9, p. 553-556.
- Foster, H.L., Donato, M.L., and Yount, M.E., 1978, Petrographic and chemical data on Mesozoic granitic rocks of the Eagle quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–253, 2 sheets, scale 1:250,000, 29 p.

- Foster, H.L., Forbes, R.B., and Ragan, D.M., 1966, Granulite and peridotite inclusions from Prindle Volcano, Yukon-Tanana Upland, Alaska: U.S. Geological Survey Professional Paper 550–B, p. B115–B119.
- Foster, H.L., Jones, D.L., Keith, T.E.C., Wardlaw, B., and Weber, F.R., 1978, Late Paleozoic radiolarians and conodonts found in chert of Big Delta quadrangle, *in* Johnson, K.M., ed., United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B34–B36.
- Foster, H.L., Keith, T.E.C., and Menzie, W.D., 1987, Geology of east-central Alaska: U.S. Geological Survey Open-File Report 87–188, 59 p.
- Foster, H.L., Laird, J., and Cushing, G.W., 1984, Thrust faulting in the Eagle A-l quadrangle, Alaska, and its implications for the tectonic history of the Yukon-Tanana Upland [abs.]: EOS (Transactions of the American Geophysical Union), v. 65, no. 16, p. 291.
- Foster, H.L., Laird, J., Keith, T.E.C., Cushing, G.W., and Menzie, W.D., 1983, Preliminary geologic map of the Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 83–170–A, 30 p., scale 1:250,000.
- Foster, H.L., O'Leary, R.M., McDanal, S.K., and Clark, A.L., 1978, Analyses of rock samples from the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 78 469, 125 p., 1 sheet, scale 1:250,000.
- Foster, H.L., Weber, F.R., Forbes, R.B., and Brabb, E.E., 1973, Regional geology of Yukon-Tanana Upland, Alaska, *in* Pitcher, M.G., ed., Arctic geology: American Association of Petroleum Geologists Memoir 19, p. 388–395.
- Foster, R.L., 1966, The petrology and structure of the Amy Dome area, Tolovana mining district, east-central Alaska: Rolla, University of Missouri, Ph.D. dissertation, 225 p.
- Foster, R.L., 1968, Potential for lode deposits in the Livengood gold placer district, east-central Alaska: U.S. Geological Survey Circular 590, 18 p.
- Foster, R.L., 1969, Nickeliferous serpentinite near Beaver Creek, east-central Alaska: U.S. Geological Survey Circular 615, p. 2–4.
- Fournelle, J.H., 1988, The geology and petrology of Shishaldin Volcano, Unimak Island, Aleutian arc, Alaska: Baltimore, The Johns Hopkins University, Ph.D. dissertation, 529 p.
- Fournelle, J.H., 1990, Anhydrite in Nevado del Ruiz November 1985 pumice; Relevance to the sulfur problem: Journal of Volcanology and Geothermal Research, v. 42, p. 189–201.
- Fournelle, J.H., 1990, Geology and geochemistry of Fisher Caldera, Unimak Island, Aleutians; Initial results: EOS, (Transactions of the American Geophysical Union), v. 71, p. 1,698.
- Fournelle, J., and Marsh, B.D., 1986, Shishaldin volcano, Unimak Island, Aleutians; Unordinary arc lavas; 1. Chemistry, mineralogy, and petrology: EOS (Transactions of the American Geophysical Union), v. 67, no. 44, p. 1276.
- Fournelle, J.H. and Marsh, B.D., 1987, Diopsidic cpx produced by assimilation of Fo-rich olivine by magmas at Shishaldin Volcano: Implications for Alaskan layered complexes: EOS (Transactions of the American Geophysical Union), v. 68, p. 1525.
- Fournelle, J.H. and Marsh, B.D., 1991, Shishaldin Volcano; Aleutian high-alumina basalts and the plagioclase accumulation question: Geology, v. 19, p. 234–237.
- Fournier, R.O., 1977, Chemical geothermometers and mixing models for gem thermal systems: Geothermics, v. 5, p. 41–50.
- Fox, J.E., Lambert, P.W., Pitman, J.K., and Wu, C.H., 1979, A study of reservoir characteristics of the Nanushuk and Colville groups, Umiat test well 11, National Petroleum Reserve in Alaska: U.S. Geological Survey Circular 820, 47 p.
- Francis, D.M., 1976, The origin of amphibole in Iherzolite xenoliths from Nunivak Island, Alaska: Journal of Petrology, v. 17, p. 357–378.
- Francis, D.M., 1976, Corona-bearing pyroxene granulite xenoliths and the lower crust beneath Nunivak Island, Alaska: Canadian Mineralogist, v. 14, p. 291–298.
- Frank, C.O., and Zimmerman, J., 1982, Petrography of nonultramafic rocks from the Avan Hills complex, De Long Mountains, Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 22–26.
- Franks, A.L., 1981, A petrological study of Mt. Recheschnoi Volcano, Umnak Island, Alaska: New York, Columbia University, Master's thesis, 35 p.

- Franks, S.G., and Hite, D.M., 1980, Controls of zeolite cementation in Upper Jurassic sandstones, lower Cook Inlet, Alaska [abs.]: American Association rof Petroleum Geologists Bulletin, v. 64, no. 5, p. 708–709.
- Franz, G., and Althaus, E.K., 1977, The stability relations of paragenesis paragoniteitotsite-quartz: Stuttgart, Federal Republic of Germany, Neues Jahrbuch fur Mineralogie Abhandlungen, v. 130, p. 159–167.
- Fraser, G.D., and Barnett, H.F., 1959, Geology of the Delarof and westernmost Andreanof Islands, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 1028–I, p. 211–248.
- Fraser, G.D., and Snyder, G.L., 1959, Geology of southern Adak Island and Kagalaska Island, Alaska: U.S. Geological Survey Bulletin 1028–M, p. 371–408.
- Fraser, G.S., and Clark, R.H., 1976, Transgressive-regressive shelf deposition, Shublik Formation, Prudhoe Bay area, Alaska: American Association of Petroleum Geologists Bulletin, v. 60, p. 672.
- Freeland, G.L., and Dietz, R.S., 1973, Rotation history of Alaskan tectonic belts: Tectonophysics v. 18, p. 379–389.
- French, H.M., 1976, The periglacial environment: London and New York, Longman, 309 p.
- Frey, F.A., and Clague, D.A., 1983, Geochemistry of diverse basalt types from Loihi Seamount Hawaii; Petrogenic implications: Earth and Planetary Science Letters, v. 66, p. 337–355.
- Frey, F.A., Green, D.H., and Roy, S.D., 1978, Integrated models of basalt petrogenesis; A study of quartz tholeites to olivine melilites from southeastern Australia utilizing geochemical and experimental petrological data: Journal of petrology, v. 19, p. 463–513.
- Friesen, W.B., 1982, Petrography of igneous rocks from Amlia Island, Aleutian Island arc, Alaska: U.S. Geological Survey Open-File Report 82–302, 31 p.
- Fritts, C.E., Eakins, G.R., and Garland, R.E., 1971, Geology and geochemistry near Walker Lake, southern Survey Pass quadrangle, Arctic Alaska: Alaska Division of Geological and Geophysical Surveys Annual Report, p. 19–27.
- Frost, C.D., and Myers, J.D., 1987, Nd isotope systematics of Aleutian Island arc magma generation and ascent: EOS (Transactions of the American Geophysical Union), v. 68, p. 462.
- Frost, T.P., Calzia, J.P., Kistler, R.W., and Davison, V.V., 1988, Petrogenesis of the Crooked Mountains pluton, Bethel quadrangle; A preliminary report, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska: U.S. Geological Survey Circular 1016, p. 126–131.
- Fuis, G.S., Ambos, E.L., Mooney, W.D., Christensen, N.I., and Geist, E.L., 1991, Crustal structure of accreted terranes in southern Alaska, Chugach Mountains, and Copper River Basin, from seismic refraction results: Journal of Geophysical Research, v. 96, p. 4187–4227.
- Fuis, G.S., and Plafker, G., 1991, Evolution of deep structure along the Trans-Alaska Crustal Transect, Chugach Mountains and Copper River Basin, southern Alaska: Journal of Geophysical Research, v. 96, p. 4229–4253,
- Fujii, T., and Scarfe, C.M., 1985, Composition of liquids coexisting with spinel Iherzilite at 10 kbar and genesis of MORBs: Contributions to Mineralogy and Petrology, v. 90, p. 18–28.
- Fujita, K., and Newberry, J.T., 1982, Tectonic evolution of northeastern Siberia and adjacent regions: Tectonophysics, v. 89, p. 337–357.
- Fujita, K., Engdahl, E.R., and Sleep, N.H., 1981, Subduction zone calibration and teleseismic relocation of thrust zone events in the central Aleutian Islands: Bulletin of the Seismological Society of America, v. 71, p.1805–1825.
- Fukuhara, C.R., 1986, Descriptions of plutons in the western part of the Juneau and parts of the adjacent Skagway quadrangles, southeastern Alaska: U.S. Geological Survey Open-File Report 86–393, 81 p., scale 1:250,000.
- Gabrielse, H., 1985, Major dextral transcurrent displacements along the northern Rocky Mountain trench and related lineaments in north-central British Columbia: Geological Society of America Bulletin, v. 96, p. 1–14.
- Gabrielse, H., and Yorath, C.J., 1987, The Cordilleran orogen; Canadian sector, *in* Palmer, A. R., ed., Perspectives in regional geological synthesis: Boulder, Colo. Geological Society of America DNAG Special Publication 1, p. 81–89.
- Gabrielse, H., and Yorath, C.J., 1991, Tectonic synthesis, *in* Gabrielse, H., and Yorath, C.J., eds., Geology of the Cordilleran orogen in Canada: Geological Survey of Canada, Geology of Canada, no. 4, p. 677–705.
- Gabrielse, H., and Yorath, C.J., eds., 1991, Geology of the Cordilleran orogen in Canada: Geological Survey of Canada, Geology of Canada, no. 5 (also Geological Society of America, The Geology of North America, v. G–1), 844 p.
- Gabrielse, H., Loveridge, W.E., Sullivan, R.W., and Stebens, R.D., 1982, U-Pb measurements on zircon indicate middle Paleozoic plutonism in the Omineca Crystalline Belt, north-central British Columbia, *in* Current research, part C: Geological Survey of Canada Paper 82–IC, p. 139–146.

- Gamble, B.M., Ashley, R.P., and Pickthorn, W.J., 1985, Preliminary study of lode gold deposits, Seward Peninsula, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 27–29.
- Gard, L.M., 1977, Geologic history: *in* Merritt, M.L. and Fuller, G.R., eds., The Environment of Amchitka Island, Alaska: Technical Information Center, Energy Research Development Administration, p. 13–34.
- Gard, L.M., Jr., 1980, The Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 1478, 38 p.
- Gardner, J.V., Vallier, T.L., Dean, W.E., Kvenvolden, K.A., and Redden, G.D., 1979, Sedimentology and geochemistry of surface sediments and the distribution of faults and potentially unstable sediments, St. George basin region of the outer continental shelf, southern Bering Sea: U.S. Geological Survey Open-File Report 79–1562, 88 p.
- Gardner, M.C., and Hudson, T.L., 1984, Structural geology of Precambrian and Paleozoic metamorphic rocks, Seward Terrane, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 285.
- Gardner, M.C., and Jarrard, R.D., 1984, Style and origin of structures, Paleozoic and Precambrian rocks of southern Tatonduk terrane, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, no. 5, p. 285.
- Gardner, M.C., and 8 others, 1988, Pennsylvanian pluton stitching of Wrangellia and Alexander terranes, Wrangell Mountains, Alaska: Geology, v. 16, p. 967–971.
- Gardner, M.C., Bergman, S.C., MacKevett, E.M., Jr., Plafker, G., Campbell, R.C., Cushing, G.W., Dodds, C.J., and McClelland, W.D., 1988, Middle Pennsylvanian pluton stitching of Wrangellia and the Alexander terrane, Wrangell Mountains, Alaska: Geology, v. 16, p. 967–971.
- Gardner, M.C., MacKevett, E.M., Jr., and McClelland, W.D., 1986, The Chitina fault system of southern Alaska; An Early Cretaceous collisional suture zone [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 108.
- Gates, G.O., and Gryc, G., 1963, Structure and tectonic history of Alaska, *in* Childs, O.E., and Beebe, B.W., eds., The backbone of the Americas, a symposium: American Association of Petroleum Geologists Memoir 2, p. 264–277.
- Gates, G.O., Grantz, A., and Patton, W.W., Jr., 1968, Geology and natural gas and oil resources of Alaska, *in* Natural gases of North America: Pt. 1, Natural gases in rocks of Cenozoic age: American Association of Petroleum Geologists Memoir 9, v. 1, p. 3–48.
- Gates, G.O., Powers, H.A. and Wilcox, R.E., 1971, Geology of the Near Islands Alaska with a section on Surficial geology *by* J.P. Schafer: U.S. Geological Survey Bulletin 1028–U, p. 709–822.
- Gault, H.R., 1945, The Salt Chuck copper-palladium mine, Prince of Wales Island, southeastern Alaska: U.S. Geological Survey Open-File Report 4525, 18 p.
- Gautier, D.L., 1987, Petrology of Cretaceous and Tertiary reservoir sandstones in the Point Thompson area, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 117–122.
- Gawthorp, W.H., Page, R.A., Reichle, M., and Jones, A., 1973, The southeast Alaska earthquakes of July 1973 [abs.]: EOS, (American Geophysical Union Transactions), v. 54, p. 1136.
- Gaynor, G.C., and Scheihing, M.H., 1988, Shelf depositional environments and reservoir characteristics of the Kuparuk River Formation (Lower Cretaceous), Kuparuk Field, North Slope, Alaska, *in* Lomando, A.J., and Harris, P.M., eds., Giant oil and gas fields, a core workshop: Tulsa, Oklahoma, Society of Economic Paleontologists and Mineralogists Core Workshop no. 12, p. 333–389.
- Gealey, W.I., 1980, Ophiolite obduction mechanism, *in* Panayiotow A., ed., Ophiolites; Proceedings International Ophiolite Symposium: Cyprus Geological Survey Department, p. 228–243.
- Gedney, L. Berg, E, Pulpan, H. Davies, J. Feetham, W., 1969, A field trip report on the Rampart Alaska earthquake of October 29, 1968: Seismological Society of America Bulletin, v.59, no.3, p.1421–1423.
- Gedney, L., and Berg, E., 1969, The Fairbanks earthquakes of June 21, 1967; aftershock distribution, focal mechanisms, and crustal parameters: Bulletin of the Seismological Society of America, v. 59, no. 1, p. 73–100.
- Gedney, L., Shapiro, L., Van Wormer, D., and Weber, F.R., 1972, Correlation of epicenters with mapped faults, east-central Alaska, 1968–1971: U.S. Geological Survey Open-File Report, 7 p.
- Gehrels, G.E., 1987, Geology of southern Prince of Wales Island, southeastern Alaska: Geological Society of America Bulletin, v. 98, p. 123–137.
- Gehrels, G.E., and Berg, H.C., 1992, Geologic map of southeastern Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–1867, 1 sheet, scale 1:600,000.

- Gehrels, G.E., and McClelland, W.C., 1988, Outline of the Taku terrane and Gravina belt in the Cape Fanshaw-Windham Bay region of central southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 20, p. 163.
- Gehrels, G.E., and McClelland, W.C., 1988, Early Tertiary uplift of the Coast Range batholith along west-sideup extensional shear zones [abs.]: Geological Society of America Abstracts with Programs, v. 20, p. A 111.
- Gehrels, G.E., and Saleeby, J.B., 1984, Paleozoic geologic history of the Alexander terrane, and comparisons with other orogenic belts [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 516.
- Gehrels, G.E., and Saleeby, J.B., 1985, Constraints and speculations on the displacement and accretionary history of the Alexander Wrangellia-Peninsular superterrane [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 356.
- Gehrels, G.E., and Saleeby, J.B., 1987, Geologic framework, tectonic evolution, and displacement history of the Alexander terrane: Tectonics, v. 6, p. 151–173
- Gehrels, G.E., and Saleeby, J.B., 1987, Geology of southern Prince of Wales Island, southeastern Alaska: Geological Society of America Bulletin, v. 98, p. 123–137.
- Gehrels, G.E., Brew, D.A., and Saleeby, J.B., 1984, Progress report on U/Pb (zircon) geochronologic studies in the Coast Plutonic metamorphic complex east of Juneau, southeastern Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 100–102.
- Gehrels, G.E., Dodds, C.J., and Campbell, R.B., 1986, Upper Tnassic rocks of the Alexander terrane, SE Alaska and the Saint Elias Mountains of B.C. and Yukon [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 109
- Gehrels, G.E., McClelland, W.C., Samson, S.D., Patehett, P.J., and Brew, D.A., 1991, U-Pb geoehronology and tectonic significance of Late Cretaceous-early Tertiary plutons in the northern Coast Mountains batholith: Canadian Journal of Earth Sciences, v. 28, no. 6, p. 899–911.
- Gehrels, G.E., McClelland, W.C., Samson, S.D., Patchett, P.J., and Jackson, J.L., 1990, Ancient continental margin assemblage in the northern Coast Mountains, southeast Alaska and northwest Canada: Geology, v. 18, p.208–211.
- Gehrels, G.E., Saleeby, J.B., and Berg, H.C., 1983, Preliminary description of the Klakas orogeny in the southern Alexander terrane, southeastern Alaska, *in* Stevens, C.H., eds., Pre-Jurassic rocks in western North American suspect terranes: Pacific Section, Society of Economic Paleontologists and Mineralogists, p. 131–141.
- Gehrels, G.E., Saleeby, J.B., and Berg, H.C., 1987, Geology of Annette, Gravina, and Duke Islands, southeastern Alaska: Canadian Journal of Earth Sciences, v. 24, p. 866–881.
- Geist, E.L., Childs, J.R., and Scholl, D.W., 1988, The origin of summit basins of the Aleutian Ridge: Implications for block rotation of an arc massif: Tectonics, v.7, p.327–341.
- Geist, E.L., Childs, J.R., and Scholl, D.W., 1988. Evolution and petroleum geology of Amlia and Amukta intra-arc summit basins, Aleutian Ridge: Marine and Petroleum Geology, v. 4, p. 334–352.
- Gemuts, I., Puchner, C.C., and Steefel, C.I., 1983, Regional geology and tectonic history of western Alaska, *in* Proceedings of the 1982 Symposium on Western Alaska Geology and Resource Potential: Anchorage, Alaska Geological Society, v.3, p. 67–87.
- Gemuts, I., Steefel, C.I., and Puchner, C.C., 1982, Geology and mineralization of western Alaska [abs.]: Anchorage, Alaska Geological Society 1982 Symposium Program with Abstracts, p. 36–37.
- Geological Survey of Canada, 1959, Geologic map of Canada, No. 1250A: Geological Survey of Canada, Ottawa, scale 1:500,000, 1 sheet.
- Gergen, L.D., and Plafker, G., 1988, Petrography of sandstones of the Orca Group from the southern Trans-Alaskan Crustal Transect (TACT) route and Montague Island, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 156–159.
- Gerlach, T.M., Westrich, H.R., and Casadevall, T.J., 1990, High sulfur and chlorine magma during the 1989-90 eruption of Redoubt Volcano, Alaska: EOS (Transactions of the American Geophysical Union), v. 43, p. 1702.
- Ghiorso, M.S., 1985, Chemical mass transfer in magmatic processes; I, Thermodynamic relations and numerical algorithms: Contributions to Mineralogy and Petrology, v. 90, p. 107–120.
- Gibbons, A.B., Megeath, J.D., and Pierce, K.L., 1984, Probability of moraine survival in a succession of glacial advances: Geology, v. 12, p. 327–330.

- Gilber, W.G., 1981, Preliminary geologic map of the Cheeneetnuk River area, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 153, scale 1:63,360.
- Gilbert, G.K., 1904, Glaciers and glaciation: New York, Doubleday, Page and Co., Harriman Alaska Series, v. 3, 231 p.
- Gilbert, W.G., 1976, Evidence for early Cenozoic orogeny in central Alaska Range, *in* Short notes on Alaskan geology-1976: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 51, p. 5–7.
- Gilbert, W.G., and Bundtzen, T.K., 1979, Mid-Paleozoic tectonics, volcanism and mineralization in north-central Alaska Range, *in* Sisson, A., ed., The relationship of plate tectonics to Alaskan geology and resources: Anchorage, Alaska Geological Society Symposium 6 Proceedings, 1977, p. Fl–F22.
- Gilbert, W.G., and Bundtzen, T.K., 1983, Paleozoic stratigraphy of Farewell area, southwest Alaska Range, Alaska, *in* Alaska Geological Society Symposium; New Developments in the Paleozoic Geology of Alaska and the Yukon, Anchorage, Alaska, 1983 [abs.]: Alaska Geological Society Program and Abstracts, p. 10–11.
- Gilbert, W.G., and Bundtzen, T.K., 1983, Two-stage amalgamation of west-central Alaska: Geological Society of America Abstracts with Programs, v. 15, p. 428.
- Gilbert, W.G., and Bundtzen, T.K., 1984, Stratigraphic relationship between Dillinger and Mystic terranes, western Alaska Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 286.
- Gilbert, W.G., and Redman, Earl, 1975, Geologic map and structure sections of Healy C-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–80, scale 1:40,000.
- Gilbert, W.G., and Redman, E., 1977, Metamorphic rocks of ToklatTeklanika Rivers area, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 50, 13 p.
- Gilbert, W.G., and Solie, D.N., 1983, Preliminary bedrock geology of the McGrath A-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–7, scale 1:40,000.
- Gilbert, W.G., Clough, A.H., Burns, L.E., Kline, J.T., Redman, E., and Fogels, E.J., 1990, Reconnaissance geology and geochemistry of the northeast Skagway quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Report of Investigations 90–5, 1 sheet, scale 1:125,000.
- Gilbert, W.G., Ferrell, V.M., and Turner, D.L., 1976, The Teklanika Formation—a new Paleocene volcanic formation in the central Alaska Range: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 47, 16 p., 1 sheet, scale 1:63,360.
- Gilbert, W.G., Solie, D.N., and Dickey, D.B., 1982, Preliminary bedrock geology of the McGrath B-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 148, scale 1:40,000.
- Gilbert, W.G., Nye, C.J., and Sherwood, K.W., 1984, Stratigraphy, petrology, and geochemistry of Upper Triassic rocks from the Pingston and McKinley terranes, central Alaska Range: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–30, 14 p.
- Gilbert, W.G., Wiltse, M.A., Carden, J.R., Forbes, R.B., and Hackett, S.W., 1977, Geology of Ruby Ridge, southwestern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 58, 16 p.
- Gill, J.B., 1981, Orogenic andesites and plate tectonics: New York, Springer-Verlag, 390 p.
- Glassley, W.F., and Cowan, D.S., 1975, Metamorphic history of Franciscan greenstone, blueschist, and eclogite: EOS (Transactions of the American Geophysical Union), v. 56, no. 12, p. 1081.
- Globerman, B.R., 1985, A paleomagnetic and geochemical study of upper Cretaceous to lower Tertiary volcanic rocks from the Bristol Bay region, southwestern Alaska: Santa Cruz, University of California, Ph.D. dissertation, 292 p.
- Globerman, B.R., and Coe, R.S., 1984, Discordant declinations from "in place" Upper Cretaceous volcanics, SW Alaska; Evidence for oroclinal bending? [abs.]: Geological Society of American Abstracts with Programs, v. 16, p. 286.
- Globerman, B.R., and Coe, R.S., 1984, Paleomagnetic results from Upper Cretaceous volcanic rocks in northern Bristol Bay, SW Alaska, and tectonic implications, *in* Howell, D.G., Jones, D.L., Cox, A., and Nur, A., eds., Proceedings of the Circum-Pacific Terrane Conference: Stanford, Calif., Stanford University Publications in the Geological Sciences, v.18, p 98–102.
- Globerman, B.R., Coe, R.L., Hoare, J.M., and Decker, John, 1983, Palaeomagnetism of Lower Cretaceous tuffs from Yukon-Kuskokwim delta region, western Alaska: Nature, v. 305, no. 5934, p. 516–520.
- Globerman, B.R., Gill, J.B., and Batatian, D., 1984, Petrochemical data from Upper Cretaceous volcanic rocks; Hagemeister, Crooked, and Summit Islands, SW Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p.286.

- Gluskoter, H.J., and Hopkins, M.E., 1970, Distribution of sulfur in Illinois coals, *in* Smith, W.H., Nance, R.B., Hopkins, M.E., Johnson, R.G., and Shabica, C.W., eds., Depositional environments in parts of the Carbondale Formation—Western and northern Illinois: Illinois Geological Survey Guidebook Series 8, p. 89–95.
- Gluskoter, H.J., and Simon, J.A., 1968, Sulfur in Illinois coals: Illinois State Geological Survey Circular 432, 28 p.
- Gnibidenko, G.S., and 5 others, 1980, Tectonics of the Kuril-Kamehatka deepwater shelf Moscow, Nauka, 179 p. (in Russian)
- Godson, R.H., ed., 1984, Composite magnetic anomaly map of the United States, Part B: Alaska and Hawaii: U.S. Geological Survey Geophysical Investigations Map GP–954–B, scale 1:2,500,000.
- Godwin, C.I., 1976, Casino, *in* Brown, S.C., ed., Porphyry deposits of the Canadian Cordillera: Canadian Institute of Mining and Metallurgy Special v. 15, p. 344–354.
- Goldfarb, R.J., Leach, D.L., Miller, M.L., and Pickthorn, W.J., 1986, Geology, metamorphic setting, and genetic constraints of epigenetic lode-gold mineralization within the Cretaceous Valdez Group, south-central Alaska, *in* Keppie, J.D., Boyle, R.W., and Haynes, S.J., eds., Turbidite-hosted gold deposits: Geological Association of Canada Special Paper 32, p. 93–113.
- Goldfarb, R.J., Light, T.D., and Leach, D.L., 1986, Nature of the ore fluids at the Alaska-Juneau gold deposit, *in* Bartsch-Winkler, S., and Reed, K.M., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 92–95.
- Goldreich, P., and Toomre, A., 1969, Some remarks on polar wandering: Journal of Geophysical Research, v. 74, p. 2555–2567.
- Goldthwait, R.P., 1987 Glacial history of Glacier Bay Park area, *in* Anderson, P.J., Goldthwait, R.P., and McKenzie, G.D., eds., Observed processes of glacial deposition in Glacier Bay, Alaska: Columbus, Ohio State University, Byrd Polar Research Center, Miscellaneous Publication No. 236, p. 5–16.
- Goodwin, E.B., Fuis, G.S., Nokleberg, W.J., and Ambos, E.L., 1989, The crustal structure of the Wrangellia terrane along the east Glenn Highway, eastern-southern Alaska: Journal of Geophysical Research, v. 94, p. 16,037–16,057.
- Gordey, S.P., 1981, Stratigraphy, structure, and tectonic evolution of southern Pelly Mountains in the Indigo Lake area, Yukon Territory: Geological Survey of Canada Bulletin 318, 1 sheet, scale 1:60,000, 44 p.
- Gordey, S.P., Abbott, J.G., and Orchard, M.J., 1982, Devono-Mississippian (Earn Group) and younger strata in east-central Yukon, *in* Current Research, Part B: Geological Survey of Canada Paper 82 1B, p. 93–100.
- Gordey, S.P., Abbott, J.G., Tempelman-Kluit, D.J., and Gabrielse, H., 1987, "Antler" clastics in the Canadian Cordillera: Geology, v. 15, p. 103–107.
- Gordon, R.G., 1983, Late Cretaceous apparent polar wander of the PaciSc plate; Evidence for a rapid shift of the Pacific hot spots with respect to the spin axis: Geophysical Research Letters, v. 10, p. 709–712.
- Gordon, R.G., Cox, A., and O'Hare, S., 1984, Paleomagnetic Euler poles and the apparent polar wander and absolute motion of North America since the Carboniferous: Tectonics, v. 3, p. 499–537.
- Gottfried, David, Jaffe, H.W., and Senftle, F.E., 1959, Evaluation of the lead-alpha determinations of accessory minerals of igneous rocks: U.S. Geological Survey Bulletin 1097–A, p. 1–63.
- Gottschalk, R.R., 1987, Structural and petrologic evolution of the southern Brooks Range near Wiseman, Alaska: Houston, Tex., Rice University, Ph.D. dissertation, , 263 p., 2 sheets, scale 1:31,680.
- Gottschalk, R.R., 1987, Tectonics of the schist belt metamorphic terrane near Wiseman, Alaska [abs.]: Geological Society of America Abstracts with Programs v. 19, p.383.
- Gottschalk, R.R., 1990, Structural evolution of the schist belt, south-central Brooks Range fold and thrust belt, Alaska: Journal of Structural Geology, v. 12, p. 453–470
- Gottschalk, R.R., and Oldow, J.S., 1988, Low-angle normal faults in the south-central Brooks Range fold and thrust belt, Alaska: Geology, v. 16, p. 395–399.
- Gough, D., Fordjor, C., and Bell, J., 1983, A stress province boundary and tractions on the North American plate: Nature, v. 305, p. 619–621.
- Grant, U.S., and Higgins, D.F., 1910, Preliminary report on the mineral resources of the southern part of Kenai Peninsula, *in* Brooks, A.H., and others, compilers, Mineral resources of Alaska, report on progress of investigations, 1909: U.S. Geological Survey Bulletin 442, p. 166–178.

- Grantz, A., 1960, Geologic map of Talkeetna Mountains (A-2) quadrangle, Alaska, and the contiguous area to the north and northwest: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–313, scale 1:48,000.
- Grantz, A, 1960, Geologic map of Talkeetna Mountains (A-1) quadrangle, and the south third of Talkeetna Mountains (B-1) quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–314, 1 sheet, scale 1:48,000.
- Grantz, A., 1961, Geologic map and cross sections of the Anchorage (D-2) quadrangle and northeastern most part of the Anchorage (D-3) quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–342, scale 1:48,000.
- Grantz, A., 1964, Stratigraphic reconnaissance of the Matanuska Formation in the Matanuska Valley, Alaska: U.S. Geological Survey Bulletin 1181–1, 33 p.
- Grantz, A., 1966, Strike-slip faults in Alaska: U.S. Geological Survey Open-File Report 66–267, 82 p.,4 sheets, scale 1:63,360.
- Grantz, A., and 9 others, 1982, The Arctic region, *in* Palmer, A.R., ed., Perspectives in regional geological synthesis; Planning for the Geology of North America: Geological Society of America DNAG Special Publication 1, p. 105–115.
- Grantz, A., and Eittreim, S., 1979, Geology and physiography of the continental margin north of Alaska and implications for the origin of the Canada basin: U.S. Geological Survey Open-File Report 79–288, 61 p.
- Grantz, A., and May, S.D., 1983, Rifting history and structural development of the continental margin north of Alaska, *in* Watkins, J.S., and Drake, C.L., eds., Studies in continental margin geology: American Association of Petroleum Geologists Memoir 34, p. 77–100. Circum-Pacific
- Grantz, A., and May, S.D., 1987, Regional geology and petroleum potential of the United States Chukchi Shelf north of Point Hope, *in* Scholl, D. W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, v. 6, p. 37–58.
- Grantz, A., Dinter, D.A., and Biswas, N.N., 1983, Holocene faulting, warping, and earthquake epicenters on the Beaufort Shelf north of Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1189C, 7 p., 3 sheets, scale 1:500,000.
- Grantz, A., Dinter, D.A., and Biswas, N.N., 1983, Map, cross sections, and chart showing late Quaternary faults, folds, and earthquake epicenters on the Alaskan Beaufort shelf: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1182–C, 3 sheets, 7 p., scale 1:500,000.
- Grantz, A., Dinter, D.A., and Culotta, R.C., 1987, Geology of the continental shelf north of the Arctic National Wildlife Refuge, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Los Angeles, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Anchorage, Alaska Geological Society, v. 2, p. 759–762.
- Grantz, A., Dinter, D.A., and Culotta, R.C., 1987, Structure of the continental shelf north of the Arctic National Wildlife Refuge, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 271–276.
- Grantz, A., and 6 others, 1982, Geologic framework, hydrocarbon potential, and environmental conditions for exploration and development of proposed oil and gas lease sale 85 in the central and northern Chukchi Sea: A summary report: U.S. Geological Survey Open-File Report 82–1053, 84 p., 30 figs.
- Grantz, A., and 6 others, 1982, Geological framework, hydrocarbon potential, and environmental conditions for exploration and development of proposed oil and gas lease sale 87 in the Beaufort and northeast Chukchi Seas: A summary report: U.S. Geological Survey Open-File Report 82–482, 73 p., 28 figs.
- Grantz, A., Eittreim, S.L., and Dinter, D.A., 1979, Geology and tectonic development of the continental margin of North America, *in* Keen, C.E., ed., Crustal properties across passive margins: Tectonophysics, v. 59, p.263–291.
- Grantz, A., Eittreim, S.L., and Whitney, O.T., 1981, Geology and physiography of the continental margin north of Alaska and implications for the origin of the Canada Basin, *in* Nairn, A.E.M., Churkin, M., and Stehli, F.G., eds., The ocean basins and margins; v. 5, Geology of the Arctic Ocean Basin and its margins: New York, Plenum, p. 439–492.
- Grantz, A., and Jones, D.L., 1960, Stratigraphy and age of the Matanuska Formation: U.S. Geological Survey Professional Paper 400–B, p. B347–B351.
- Grantz, A., and Kirschner, C.E., 1976, Tectonic framework of petroliferous rocks in Alaska, *in* Halbouty, M.T., Maher, J.C., and Lian, H.M., eds., Circum-Pacific energy and mineral resources: American Association of Petroleum Geologists Memoir 25, p. 291–307.
- Grantz, A., Hanna, W.F., and Wallace, S.L., 1972, Chukchi Sea seismic reflection and magnetic profiles, 1971, between northern Alaska and Herald Island: U.S. Geological Survey Open-File Report 72–137, 38 sheets.

- Grantz, A., Holmes, M.L., and Kososki, B.A., 1975, Geologic framework of the Alaskan continental terrace in the Chukchi and Beaufort Seas, *in* Yorath, C.J., Parker, E.R., and Glass, D.J., eds., Canada's continental margins and offshore petroleum exploration: Canadian Society of Petroleum Geologists Memoir 4, p. 669–700.
- Grantz, A., Holmes, M.L., Riley, D.C., and Wallace, S.L., 1972, Seismic reflection profiles; Part 1, Seismic, magnetic, and gravity profiles; Chukohi Sea and adjacent Arctic Ocean, 1972: U.S. Geological Survey Open-File Report 72 138, 19 sheets.
- Grantz, A., Johnson, L., and Sweeney, J.F., eds., 1990, The Arctic Ocean Region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, 644 p.
- Grantz, A., Jones, D.L., and Lanphere, M.A., 1966, Stratigraphy, paleontology, and isotopic ages of upper Mesozoic rocks in the southwestern Wrangell Mountains, Alaska, *in* Geological Survey research 1963: U.S. Geological Survey Professional Paper 550–C, p. C39–C47.
- Grantz, A., Mann, D.M., and May, S.D., 1982, Tracklines of multichannel seismic-reflection data collected by the U.S. Geological Survey in the Beaufort and Chukchi Seas in 1977 for which profiles and stack tapes are available: U.S. Geological Survey Open-File Report 82–735, 1 sheet with text.
- Grantz, A., Mann, D.M., and May, S.D., 1986, Multichannel seismic-reflection data collected in 1978 in the eastern Chukchi Sea: U.S. Geological Survey Open-File Report 86–206, 3 p.
- Grantz, A., May, S.D., and Dinter, D.A., 1987, Regional geology and petroleum potential of the United States Beaufort and northeasternmost Chukchi Seas, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, v6, p. 17–35.
- Grantz, A., May, S.D., and Hart, P.E., 1990, Geology of the Arctic continental margin of Alaska, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., The Arctic Ocean region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, p. 257–288.
- Grantz, A., May, S.D., and Hart, P.E., 1994, Geology of the Arctic continental margin of Alaska, *in* Plafker, G., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G-1, p. 17–48.
- Grantz, A., May, S.D., Taylor, P. T., and Lawver, L.A., 1990, Canada basin, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., The Arctic Ocean region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, p. 379–402.
- Grantz, A., Moore, T.E., and Roeske, S.M., 1991, A-3 Gulf of Alaska to Arctic Ocean: Boulder, Colo., Geological Society of America Centennial Continent/Ocean Transect no. 15, 72 p., 3 sheets with text, scale 1:500,000.
- Grantz, A., Tailleur, I.L., and Carter, C., 1983, Tectonic significance of Silurian and Ordovician graptolites, Lisburne Hills, northwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 274.
- Grantz, A., Thomas, Herman, Stern, T.W., and Sheffey, N.B., 1963, Potassium-argon and lead-alpha ages for stratigraphically bracketed plutonic rocks in the Talkeetna Mountains, Alaska, in Geological Survey research, 1963: U.S. Geological Survey Professional Paper 475–B, p. B56–B59.
- Grantz, A., Wolf, S.C., Breslau, L., Johnson, T.C., and Hanna, W.F., 1970, Reconnaissance geology of the Chukchi Sea as determined by acoustic and magnetic profiles, *in* Adkison, W.L., and Brosgé, W.P., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, American Association of Petroleum Geologists, p. F1–F28.
- Grantz, A., Zietz, Isidore, and Andreasen G.F., 1963, An aeromagnetic reconnaissance of the Cook Inlet area, Alaska: U.S. Geological Survey Professional Paper 316–G, p. 117–134, 5 plates.
- Green, C.B., and Bundtzen, T.K., 1989, Summary of Alaska's mineral industry in 1988: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 89–7, 6 p.
- Green, L.H., 1972, Geology of Nash Creek, Larsen Creek, and Dawson mapareas, Yukon Territory: Geological Survey of Canada Memoir 364, 3 sheets, scale 1:250,000, 157 p.
- Green, T.H., and Ringwood, A.E., 1968, The genesis of the calc-alkaline igneous rock suite: Contributions to Mineralogy and Petrology, v. 18, p. 105–162.
- Greenberg, Jonathan, Hart, P.E., and Grantz, Arthur, 1981, Bathymetric map of the continental shelf, slope, and rise of the Beaufort Sea north of Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1182A, scale 1:500,000, 1 sheet.
- Greene, G.W., Lachenbruch, A.H., and Brewer, M.C., 1960, Some thermal effects of a roadway on permafrost, *in* Geological Survey research 1960: U.S. Geological Survey Professional Paper 400–B, p. B141–B144.

- Greene, G.W., and Coonrad, W.L., 1974, Kodiak Island faults inactive: *in* Johnson, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1977: U.S. Geological Survey Circular 722, p. 43.
- Grewingk, C., 1850, Beitrag zur Kenntniss der orographischen und geognostishen Beschaffenheit der nordwest-K uste Amerikas mit den anliegenden Inseln, St. Petersburg: reprint from Mineralogisches Gesellschaft St. Petersburg Verhandlungen, 1848–49, 351 p.
- Griggs, R.F., 1922, The Valley of Ten Thousand Smokes: Washington, D.C., National Geographic Society, 340 p.
- Grim, M.S., and McManus, D.A., 1970, A shallow seismic-profiling survey of the northern Bering Sea: Marine Geology, v. 8, p. 293–320.
- Griscom, A., 1975, Aeromagnetic map and interpretation of the Nabesna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–655H, 2 sheets, scale 1:250,000.
- Griscom, A., 1976, Aeromagnetic map and interpretation of the Tanacross quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–767A, 2 sheets, scale 1:250,000.
- Griscom, A., and Sauer, P.E., 1990, Interpretation of magnetic maps of the northern Gulf of Alaska, with emphasis on the source of the slope anomaly: U.S. Geological Survey Open-File Report 90–348, 18 p.
- Griscom, A., 1978, Aeromagnetic interpretation of the Goodnews and Hagemeister Island quadrangles region, southwestern Alaska: U.S. Geological Survey Open-File Report 78–9C, 20 p.
- Griscom, A., 1979, Aeromagnetic map and interpretation for the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–529 B. scale 1:250,000.
- Griscom, Andrew, 1976, Aeromagnetic map and the interpretation of the Tanacross quadrangle Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–767A, 2 sheets, scale 1:250,000.
- Griscom, Andrew, 1979, Aeromagnetic and geologic interpretation maps of the Talkeetna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–870–B, scale 1:250,000.
- Grommé, C.S., and Hillhouse, J.W., 1981, Paleomagnetic evidence for northward movement of the Chugach terrane, southern and southeastern Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B70–B72.
- Grove, T.L., and Donnelly-Nolan, J.M., 1986, The evolution of young silicic lavas at Medicine Lake Volcano, California; Implications for the origin of compositional gaps in calc-alkaline series lavas: Contributions to Mineralogy and Petrology, v. 92, p. 281–302.
- Grow, J.S., and Atwater, T., 1970, Mid-Tertiary tectonic transition in the Aleutian Arc: Geological Society of America Bulletin, v. 81, p. 3715–3722.
- Grow, J.A., 1973, Crustal and upper mantle structure of the central Aleutian arc: Geological Society of America Bulletin, v. 84, no. 7, p. 2169–2192.
- Grybeck, D.J, and Nelson, S.W., 1981, Structure of the Survey Pass quadrangle, Brooks Range, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1176B, scale I:250,000.
- Grybeck, D.J., 1976, An introduction to the geologic literature of Alaska: U.S. Geological Survey Open-File Report 76–235, 23 p.
- Grybeck, D., 1977, Known mineral deposits of the Brooks Range, Alaska: U.S. Geological Survey Open-File Report 77–166C, 45 p., 1 sheet, scale 1:1,000,000.
- Grybeck, D., and Nelson, S.W., 1981, Structure of the Survey Pass quadrangle, Brooks Range, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1176-B, scale 1:250,000.
- Grybeck, D., Brew, D.A., Johnson, B.R., and Nutt, C.J., 1976, Ultramafic rocks in pan of the Coast Range batholithic complex, southeastern Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B82–B85.
- Grybeck, Donald, Beikman, H.M., Brosgé, W.P., Tailleur, I.L., and Mull, C.G., 1977, Geologic map of the Brooks Range, Alaska: U.S. Geological Survey Open-File Report 77–166–B, 2 sheets, scale 1:1,000,000.
- Gryc, G., ed., 1988, Geology of the National Petroleum Reserve in Alaska: U.S. Geological Survey Professional Paper 1399, 956 p.
- Gryc, G., Miller, D.J., and Payne, T.G., 1951, Alaska, *in* Ball, M.W., ed., Possible future petroleum provinces of North America: American Association of Petroleum Geologists Bulletin, v. 35, p. 151–168.

- Gryc, G., Patton, W.W., Jr., and Payne, T.G., 1951, Present Cretaceous stratigraphic nomenclature of northern Alaska: Washington Academy of Science Journal, v. 41, p. 159–167.
- Guild, P.W., 1942, Chromite deposits of Kenai Peninsula, Alaska: U.S. Geological Survey Bulletin 931-G, p. 139-175.
- Guild, P.W., and Balsley, J.R., Jr., 1942, Chromite deposits of Red Bluff Bay and vicinity, Baranof Island, Alaska: U.S. Geological Survey Bulletin 936–G, p. G171–G187.
- Gust, D.A. and Perfit, M.R., 1987, Phase relations of a high-Mg basalt from the Aleutian island arc; Implications for primary island arc basalts and high-A1 basalts: Contributions to Mineralogy and Petrology, v. 97, p. 7–18.
- Gutenberg, Beno and Richter, C.F., 1954, Seismicity of the Earth, 2nd. ed., Princeton, New Jersey, Princeton University Press, 310 p.
- Gutenberg, Beno, 1956, Great earthquakes 1896–1903, Transactions, American Geophysical Union, v. 37, p. 608–614.
- Guthrie, R.D., 1968, Paleoecology of the large mammal community in interior Alaska during the late Pleistocene: American Midland Naturalist, v. 79, p. 346–363.
- Gutman, S.I., Goldstein, A., and Guldenzopf, E.C., 1982, Gravity and magnetic investigations of the National Petroleum Reserve in Alaska: Houston, Tex., Tetra Tech, 88 p.
- Gutman, S.I., 1980, Regional gravity survey of the National Petroleum Reserve in Alaska: National Geophysical Data Center Report TGR-0010, 36 p.
- Hackett, S.W., 1977, Aeromagnetic map of southwestern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 56, scale 1:250,000.
- Hackett, S.W., 1977, Gravity survey of Beluga basin and adjacent area, Cook Inlet region, south-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 49, 26 p.
- Hackett, S.W., 1980, Aeromagnetic map of south-central Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 63, scale 1:500,000.
- Haeussler, P.J., 1992, Structural evolution of an arc-basin: The Gravina belt in central southeastern Alaska: Tectonics, v. 11, p. 1245–1265.
- Haeussler, P.J., Coe, R.S., Onstott, T.C., and Renne, P., 1989, A second look at the paleomagnetism of the Late Triassic Hound Island Volcanics of the Alexander terrane [abs.]: Eos (Transactions, American Geophysical Union), v.70 p. 1068.
- Haeussler, P., Coe, R.S., and Onstott, T. C., 1992, Paleomagnetism of the Late Triassic Hound Island Volcanics: Revisited: Journal of Geophysical Research, v. 97, p. 19,617–19639.
- Haeussler, P.J., Coe, R.S., and Renne, P., 1992, Paleomagnetism and geochronology of 23 Ma gabbroic intrusions in the Keku Strait, Alaska, and implications for the Alexander terrane: Journal of Geophysical Research, v. 97, p. 19641–19649.
- Haga, H., and Mickey, M.B., 1983, Jurassic-Neocomian seismic stratigraphy, NPRA: A report of work performed for the U.S. Geological Survey: San Diego, Biostratigraphics, unpublished report, v. 2, 14 plates, 133 p.
- Hahn, G., and Hahn, R., 1985, Trilobiten aus dem hohen Ober-Karbon oder Unter-Perm vol Alaska: Senckenbergiana Lethaea, v. 66, p. 445–485.
- Hahn, G., Blodgett, R.B., and Gilbert, W.G., 1985, First recognition of the Gshelian (Upper Pennsylvanian) trilobite *Brachymetopus pseudometopina* Gairi and Ramovs in North America, and a description of accompanying trilobites from west-central Alaska: Journal of Paleontology, v. 59, no. 1, p. 27–31.
- Haimela, N.E., Kirschner, C.E., Nassichuk, W.W., Ulmichek, G., and Procter, R. M., 1990, Sedimentary basins and petroleum resource potential of the Arctic Ocean region, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., The Arctic Ocean Region: Boulder, Colo., Geological Society of America, The Geology of North America, V. L, p. 503–538.
- Halgedahl, S.L., and Jarrard, R.D., 1987, Paleomagnetism of the Kuparuk River Formation from oriented drill core: Evidence for rotation of the Arctic Alaska plate, in Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 581–617.
- Hall, J.K., 1990, Chukchi Borderland, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., 1990, The Arctic Ocean Region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, p. 337–350.
- Hall, M.H., Smith, T.E., and Weber, F.R., 1984, Geologic guide to the Fairbanks Livengood area, east-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, 30 p.

- Hamilton, T.D., 1979, Late Cenozoic glaciations and erosion intervals, northcentral Brooks Range, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B27–B29.
- Hamilton, T.D., 1981, Multiple moisture sources and the Brooks Range glacial record, *in* 10th Annual Arctic Workshop, March 12-14, 1981: Boulder, Colo., Institute of Arctic and Alpine Research, p. 16–18.
- Hamilton, T.D., 1982, A late Pleistocene glacial chronology for the southern Brooks Range; Stratigraphic record and regional significance: Geological Society of America Bulletin, v. 93, p. 700–716.
- Hamilton, T.D., 1982, Relict Pleistocene glacier ice in northern Alaska, *in* Abstracts, 11 th Annual Arctic Workshop, March 11-13, 1982: Boulder, Colo., Institute of Arctic and Alpine Research, p. 25–26.
- Hamilton, T.D., 1984, Late Quaternary offsets along the Kobuk and related fault zones, NW Alaska [abs.]: Geological Society of America Cordillerian Section Meeting Programs with Abstracts, v. 16, no. 5, p. 288.
- Hamilton, T.D., 1984, Surficial geologic map of the Ambler River quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1678, I:250,000.
- Hamilton, T.D., 1986, Late Cenozoic glaciation of the central Brooks Range, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 9–49.
- Hamilton, T.D., 1986, Correlation of Quaternary glacial deposits in Alaska, *in* Richmond, G.M., and Fullerton, D.S., eds., Quaternary glaciations in the United States of America: Quaternary Science Reviews, v.5, Quaternary glaciations in the Northern Hemisphere, p. 171–180.
- Hamilton, T.D., 1989, Upper Cenozoic deposits, Kanuti Flats and upper Kobuk Trench, northern Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 45–47.
- Hamilton, T.D., and Bischoff, J.L., 1984, Uranium-series dating of fossil bones from the Canyon Creek vertebrate locality in central Alaska, *in* Reed, K.M., and Bartsch-Winkler, Susan, eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 26–29.
- Hamilton, T.D., and Brigham-Grette, J., 1992, The last interglaciation in Alaska Stratigraphy and paleoecology of potential sites: Quaternary International, v. 10–12, p. 49–71.
- Hamilton, T.D., and Fulton, R.J., 1994, Middle and late Wisconsin environments of eastern Beringia, *in* Bonnichsen, R., Frison, G.C., and Turnmire, K., eds., Ice-age peoples of North America: College Station, Tex. A&M University Press [in press].
- Hamilton, T.D., and Hopkins, D.M., 1982, Correlation of northern Alaskan glacial deposits; A provisional stratigraphic framework, *in* Coonrad, W., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 15–18.
- Hamilton, T.D., and Porter, S.C., 1975, Itkillik glaciation in the Brooks Range, northern Alaska: Quaternary Research, v. 5, p. 471–497.
- Hamilton, T.D., and Thorson, R.M., 1983, The Cordilleran Ice Sheet in Alaska, *in* Wright, H.E., Jr., and Porter, S.C., eds., Late Quaternary environments of the United States, v. 1: Minneapolis, University of Minnesota Press, p. 38–52.
- Hamilton, T.D., Galloway, J.P., and Koster, E.A., 1988, Late Wisconsin eolian activity and related alluviation, central Kobuk River valley, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 39–43.
- Hamilton, T.D., Lancaster, G.A., and Trimble, D.A., 1987, Glacial advance of late Wisconsin (Itkillik 11) age in the upper Noatak River valley; A radiocarbon-dated stratigraphic record, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 35–39.
- Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., 1986, Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, 265 p.
- Hamilton, T.D., Reed, K.M., and Thorson, R.M., 1986, Introduction and overview, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 1–8.
- Hamilton, W., 1969, Mesozoic California and the underflow of Pacific mantle: Geological Society of America Bulletin, v. 80, p. 2409–2430.
- Hamilton, W., 1979, Tectonics of the Indonesian region: U.S. Geological Survey Professional Paper 1078, 345 p.
- Hampton, M.A., 1985, Quaternary sedimentation in Shelikof Strait, Alaska: Marine Geology, v. 62, p. 213-253.

- Hampton, M.A. and Winters, W.J., 1981, Environmental geology of Shelikof Strait, OCS sale area 60, Alaska: Proceedings 13th offshore Technology Conference, v. 4, p. 19–34.
- Hampton, M.A., 1982, Synthesis Report: environmental geology of lower Cook Inlet, Alaska: U.S. Geological Survey Open-File Report 82–197, 55 p.
- Hampton, M.A., 1982, Synthesis report: environmental geology of the Kodiak Shelf, Alaska: U.S. Geological Survey Open-File Report 82–59, 76 p.
- Hampton, M.A., and Bouma, A.H., 1977, Slope instability near the shelf break, Western Gulf of Alaska: Marine Geotechnology, v. 2, p. 309–331.
- Hampton, M.A., Johnson, K.H., Torreson, M.E., and Winters, W.J, 1981, Description of seafloor sediments and preliminary geo-environmental report, Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 81–1133, 87 p.
- Handschy, J.W., 1988, Sedimentology and structural geology of the Endicott Mountains allochthon, central Brooks Range, Alaska: Rice University, Ph.D dissertation, Houston, Tex., scale 1:63,360, 4 sheets. 171 p.
- Handschy, J.W., and Oldow, J.S., 1989, Strain variation in The Endicott Mountains allochthon, central Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Program, v. 21, no. 5, p. 89.
- Handschy, J.W., Oldow, J.S., and Avé Lallemant, H.G., 1987, Fold-thrust kinematics and strain distribution in the Endicott Mountains allochthon, Brooks Range, Alaska: Eos (American Geophysical Union Transactions), v. 68, p. 1457.
- Hanks, C.L., 1987, Preliminary geology of central Leffingwell Ridge, ANWR, northeastern Brooks Range, Alaska: Fairbanks, Alaska Divisions of Mining and Geological and Geophysical Surveys Public Data File 86–86i, 2 sheets, scale 1:25,000, 12 p.
- Hanks, C.L., 1988, Preliminary geologic map of eastern Leffingwell Ridge, northeastern Arctic National Wildlife Refuge, Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 88–6c, 2 sheets, scale 1:25,000, 14 p.
- Hanks, C.L., 1989, Preliminary geology of the pre-Mississippian rocks of the Aichilik and Egaksrak River areas, northeastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 89–1a, scale 1:25,000, 30 p.
- Hanks, C.L., and Wallace, W.K., 1990, Cenozoic thrust emplacement of a Devonian batholith, northeastern Brooks Range; Involvement of crystalline rocks in a foreland fold-and-thrust belt: Geology, v. 18, p. 395–398.
- Hanks, C.L., and Wallace, W.K., 1989, Preliminary geologic map of the northern margin of the Okpilak batholith between McCall Creek and Okpilak River, northeastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 89–1f, 13 p., scale 1:25,000.
- Hanks, C.L., Rogers, J.F., and Wallace, W.K., 1985, The Western Alaska Range Flysch terrane: What is it and where did it come from? [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 359.
- Hansen, V.L., 1988, A model for terrane accretion; Yukon-Tanana and Slide Mountain terranes, northwest North America: Tectonics, v. 7, no. 6, p. 1167–1178.
- Hansen, V.L., 1989, Mesozoic evolution of the Yukon-Tanana terrane [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. 90.
- Hansen, V.L., 1990, Yukon-Tanana terrane; A partial acquittal: Geology, v. 18, p. 365–369.
- Hansen, V.L., Heizler, M.T., and Harrison, T.M., 1991, Mesozoic thermal evolution of the Yukon-Tanana composite terrane: New evidence from **0Ar/**PAr data: Tectonics, v. 10, no. B2, p. 1921–1942.
- Hanson, B.M., 1957, Middle Permian limestone on Pacific side of Alaska Peninsular: American Association of Petroleum Geologists Bulletin, v. 41, p. 2376–2378.
- Hanson, L.G., 1964, Bedrock geology of the Rainbow Mountain area, Alaska Range, Alaska: Alaska Division of Geological Survey Report 2, 82 p.
- Haq, B.U., Hardenbol, J., and Vail, P.R., 1987, Chronology of fluctuating sea levels since the Triassic: Science, v. 235, p. 1156–1167.
- Harbert, W.P., and Cox, A., 1984, Preliminary paleomagnetic results from Umnak Island, Aleutian Ridge [abs.]: Geological Society of America Abstracts With Programs v. 16. p. 288.
- Harbert, W.P., Frei, L.S., Cox, A., and Engebretson, D.C., 1985, Relative motions between Eurasia and North America in Bering Sea region: American Association of Petroleum Geologists Bulletin, v. 69, p. 665–666.

- Harbert, W.P., Frei, L.S. Cox, A., and Engebretson, D.C., 1987, Relative motions between Eurasia and North America in the Bering Sea region: Tectonophysics, v. 134, p. 239 261.
- Harbert, W.P., Scholl, D.W., Vallier, T.L., Stevenson. A.J., and Mann, D.M., 1986, Major evolutionary phases of a forearc basin of the Aleutian Terrace; Relation to North Pacific tectonic events and the formation of the Aleutian subduction complex: Geology, v. 14, p. 757–761.
- Harbert, W., 1990, Paleomagnetic data from Alaska: Reliability, interpretation, and terrane trajectories: Tectonophysics, v. 184, p. 111–135.
- Harland, W.B., Herod, K.N., and Krinsley, D.H., 1966, The deSnition and identification of tills and tillites: Earth-Science Reviews, v. 2, p. 225–256.
- Harms, T.A., Coney, P.J., and Jones, D.L., 1984, The Sylvester allochthon, Slide Mountain terrane, British Columbia-Yukon; A correlative of oceanic terranes of northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 288.
- Harrington, G.L., 1918, The Anvik-Andreafski region, Alaska: U.S. Geological Survey Bulletin 683, 4 plates, 70 p.
- Harris, A.G., and Repetski, J.E., 1987, Ordovician conodonts from northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 169.
- Harris, A.G., Repetski, J.E., and Dumoulin, J.A., 1988, Ordovician carbonate rocks and conodonts from northern Alaska, *in* Williams, S.H., and Barnes, C.R., eds., Program and Abstracts for the Fifth International Symposium on the Ordovician System, St. Johns, Newfoundland, Canada: Subcommission on Ordovician Stratigraphy (ICS/IUGS), IGCP Project 216—Global Bioevents, p. 38.
- Harris, N.B., 1978, Late Tertiary faults in south-central Alaska: Palo Alto, Calif. Stanford University, Master's thesis.
- Harris, R.A., 1985, Paleomagnetism, geochronology, and paleotemperature of the Yukon-Koyukuk province, Alaska: Fairbanks, University of Alaska, Master's thesis, 143 p.
- Harris, R.A., 1988, Origin, emplacement, and attenuation of the Misheguk Mountain allochthon, western Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 20, no. 7, p. A112.
- Harris, R.A., Stone, D.B., and Turner, D.L., 1987, Tectonic implications of paleomagnetic and geochronologic data from the Yukon-Koyukuk province, Alaska: Geological Society of America Bulletin, v. 99, n. 3, p. 362–375.
- Harris, S.A., 1986, Permafrost distribution, zonation, and stability along the eastern ranges of the Cordillera of North America: Arctic, v. 39, no. 1, p. 29–38.
- Harris, S.A., 1986, The permafrost environment: Totowa, New Jersey, Barnes and Noble, 276 p.
- Harrison, C.G.A., and Lindh, T., 1982, Comparison between the hot spot and geomagnetic held reference frames: Nature, v. 300, p. 251–252.
- Harrison, R.E., 1969, Shaded relief [Alaska]: U.S. Geological Survey, National Atlas of the United States of America, Sheet 58, scale 1:7,500,000.
- Harrison, T.M., Duncan, I., and McDougall, I., 1985, Diffusion of ⁴⁰Ar in biotite: Temperature, pressure, and compositional effects: Geochimica et Cosmochimica Acta, v. 49, no. 11, p. 2461–2468.
- Harte, B., and Hudson, N.F.C., 1979, Pelite facies series and temperatures and pressures of Dalradian metamorphism in E. Scotland, *in* Harris, A.L., Holland, C.H., and Leake, B.E., eds., The Caledonides of the British Isles Revisited: Scottish Academic Press, p. 323–337.
- Hartman, D.C., 1974, Annual report 1973: Fairbanks, Alaska Division of Geological and Geophysical Surveys, p. 27–30.
- Hartman, D.C., Pessel, G.H., and McGee, D.L., 1972, Preliminary report on stratigraphy of Kenai Group, upper Cook Inlet, Alaska: Fairbanks, Alaska Department of Natural Resources, Division of Geological Survey Special Report 5, 4 p., 7 sheets, scale 1:500,000.
- Hasegawa, A., Zhao, D., Hori, S., Yamamoto, A., and Horiuchi, S., 1991, Deep structure of the northeastern Japan arc and its relationship to seismic and volcanic activity; Nature, v. 352, p. 683–689.
- Hatten, C.W., 1971, Petroleum potential of the Bristol Bay basin, Alaska, *in* Cram, I.H., ed., Future petroleum provinces of the United States–their geology and potential: American Association of Petroleum Geologists Memoir 15, v. 1, p. 105–108.
- Haugen, R.K., and Brown, J., 1971, Natural and man-induced disturbances of permafrost terrane, *in* Coates, D. R., ed., Environmental geomorphology: Binghamton, New York State University, p. 139–149.

- Hawkesworth, C.J., 1982, Isotope characteristics of magmas erupted along destructive plate margins, *in* Thorpe, R. S., ed., Andesites: New York, John Wiley and Sons, p. 549–571.
- Hawkins, J.W., and Melchior, J.T., 1985, Petrology of Mariana Trough and Lau Basin Basalts: Journal of Geophysical Research, v. 90, p. 11431–11468.
- Hayes, J.B., Harms, J.C., and Wilson, T., Jr., 1976, Contrasts between braided and meandering stream deposits, Beluga and Sterling formations (Tertiary), Cook Inlet, Alaska, *in* Miller, T.P., ed., Recent and ancient sedimentary environments in Alaska (Proceedings, Alaska Geological Society Symposium, April 2-4, 1975, Anchorage, Alaska): Anchorage, Alaska Geological Society, p. Jl–J27.
- Heckel, P.H., and Witzke, B.J., 1979, Devonian world palaeogeography determined from distribution of carbonates and related lithic palaeoclimatic indicators, *in* House, M.R., Scrutton, C.T., and Bassett, M.G., eds., The Devonian System: London, Special Papers in Palaeontology 23, p. 99–123.
- Heer, Oswald, 1869, *cited in Hollick*, A., 1936, Tertiary floras of Alaska: U.S. Geological Survey Professional Paper 182, p. 2.
- Heginbottom, J.A., 1984, The mapping of permafrost: Canadian Geographer, v.28, no. 1, p.78–83.
- Heginbottom, J.A., and Vincent, J.S., eds., 1986, Correlation of Quaternary deposits and events around the margin of the Beaufort Sea; Contributions from a joint Canadian-American workshop, April 1984: Geological Survey of Canada Open-File Report 1237, 60 p.
- Hein, J.R., and McLean, Hugh, 1979, Paleogene sedimentary and volcanogenic rocks from Adak Island, central Aleutian Islands, Alaska: U.S. Geological Survey Professional Paper 1126E, 16 p.
- Hein, J.R., McLean, Hugh, and Vallier, T.L., 1981, Reconnaissance geologic map of Atka and Amlia Islands, Alaska: U.S. Geological Survey Open-File Report 81–159, scale 1:250,000.
- Hein, J.R., McLean, H. and Vallier, T.L., 1984, Reconnaissance geology of southern Atka Island, Aleutian Islands, Alaska: U.S. Geological Survey Bulletin 1609, 19 p.
- Hein, J.R., Scholl, D.W., and Miller, J., 1978, Episodes of Aleutian ridge explosive volcanism: Science, v. 199, p. 137–141.
- Heiser, P.A., and 5 others, 1992, Pleistocene glacial geology of St. Lawrence Island, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. A345–346.
- Heiskanen, W.K., and Vening Meinesz, F.A., 1958, The Earth and its Gravity Field: New York City, N.Y., McGraw Hill, 470 p.
- Helfrich, G.R., Stein, S., and Wood, B.J., 1989, Subduction zone thermal structure and mineralogy and their relationship to seismic wave reflections and conversions at the slab/mantle interface: Journal of Geophysical Research, v. 94, p. 753–763.
- Heller, P.L., Tabor, R.W., O'Neil, J.R., Pevear, D.R., Shafiqullah, M., and Winslow, N.S., 1992, Isotopic provenance of Paleogene sandstones from the accretionary core of the Olympic Mountains, Washington: Geological Society of America Bulletin, v. 104, p. 140–153.
- Helwig, J., 1974, Eugeosynclinal basement and a collage concept of orogenic belts, *in* Dott, H., Jr., and Shaver, R. H., eds., Modern and ancient geosynclinal sedimentation; Problems of palinspastic restoration: Tulsa, Oklahoma, Society of Economic Paleontologists and Mineralogists Special Publication 19, p. 359–376.
- Helwig, J., and Emmet, P., 1981, Structure of the early Tertiary Orca Group in Prince William Sound and some implications for the plate tectonic history of southern Alaska: Anchorage, Alaska Geological Society Journal, v. 1, p. 12–35.
- Hemming, S., Sharp, W.D., Moore, T.E., and Mezger, K., 1989, U/Pb dating of detrital zircons from the Carboniferous Nuka Formation, Brooks Range, Alaska: Evidence for a 2.07 Ga provenance[abs.]: Geological Society of America Abstracts with Programs, v. 21, no. 6, p. A190.
- Henning, M.W., 1982, Reconnaissance geology and stratigraphy of the Skajit Formation, Wiseman B-5 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–147, scale 1:63,360.
- Henning, M.W., Meyer, J., Kombrath, R., and Krouskop, D., 1984, Geology and gravity evaluation of oil and gas potential of the Minchumina basin, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, no. 5, p. 289.
- Henshaw, F.F., 1909, Mining in the Fairhaven precinct, in Mineral resources of Alaska: U.S. Geological Survey Bulletin 379, p. 355–369.
- Herman, Y., and Hopkins, D.M., 1980, Arctic oceanic climate in late Cenozoic time: Science, v. 209, p. 557-562.

- Herreid, G., 1962, Preliminary report on geologic mapping in the Coast Range mineral belt, *in* Fairbanks, Alaska Division of Mines and Minerals Report for the year 1962, p. 44–59.
- Herreid, G., 1966, Geology and geochemistry of the Nixon Fork area, Medfra quadrangle, Alaska: Fairbanks, Alaska Division of Mines and Minerals Geologic Report 22, 34 p
- Herreid, G., 1969, Geology and geochemistry Sithylemenkat Lake ara, Bettles quadrangle, Alaska: Fairbanks, Alaska Department of Natural Resources, Division of Mines and Geology Geologic Report 35, 22 p.
- Herreid, G., 1970, Geology of the Spirit Mountain nickel-copper prospect and surrounding area: Fairbanks, Alaska Division of Mines and Geology Geologic Report 40, 19 p.
- Herreid, G., Bundtzen, T.K., and Turner, D.L., 1978, Geology and geochemistry of the Craig A-2 quadrangle and vicinity, Prince of Wales Island, southeastern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 48, 2 plates, scale 1:40,000, 49 p.
- Herreid, Gordon, 1975, Geology of the Craig A-2 quadrangle and vicinity, Prince of Wales Island, Alaska: Fairbanks, Alaska Division Geological and Geophysical Surveys Open-File Report AOF–35, 1 sheet, scale 1:63,360.
- Herrera, R.C., 1978, Developments in Alaska in 1977: American Association of Petroleum Geologists Bulletin, v. 62, no. 8, p. 1311–1321.
- Herron, E.M., Dewey, J.F., and Pitman, W.C., 1974, Plate tectonics model for the evolution of the Arctic: Geology, v. 2, p. 377–380.
- Heusser, C.J., 1985, Quaternary pollen records from the Pacific Northwest coast; Aleutians to the Oregon-California boundary, *in* Bryant, V.M., and Holloway, R.G., eds., Pollen records of late Quaternary North American sediments: American Association of Stratigraphic Palynologists Foundation, p. 141–165.
- Heusser, C.J., 1960, Late-Pleistocene environments of North Pacific North America—an elaboration of late-glacial and postglacial climatic, physiographic, and biotic changes: American Geographical Society Special Publication 35, 308 p.
- Hickey, R.L., Frey, F.A., Gerlach, D.C., and Lopez-Escobar, L., 1986, Multiple sources for basaltic arc rocks from the southern volcanic zone of the Andes (34° 41°S); Trace element and isotopic evidence for contributions from subducted oceanic crust, mantle, and continental crust: Journal of Geophysical Research, v. 91, p. 5963–5983.
- Hickey, R.L., Gerlach, D.C., and Frey, F.A., 1984, Geochemical variations in volcanic rocks from central-south Chile (33-42°S), in Harmon, R.S., and Barreiro, B.A., eds., Andean magmatism; Chemical and isotopic constraints: Cheshire, United Kingdom, Shiva, p. 72–95.
- Hickman, R.G., 1971, The Denali fault near Cantwell, Alaska: Madison, Wisconsin, University of Wisconsin, Master's thesis, 76 p.
- Hickman, R.G., 1974, Structural geology and stratigraphy along a segment of the Denali Fault system, central Alaska Range, Alaska: Madison, Wisconsin, University of Wisconsin, Ph.D. dissertation, 276 p.
- Hickman, R.G., and Craddock, C., 1976, Geologic map of central Healy quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–95, scale 1:63,360.
- Hickman, R.G., Sherwood, K.W., and Craddock, C., 1990, Structural evolution of the early Tertiary Cantwell basin, south-central Alaska: Tectonics, v. 9, p. 1433–1449.
- Hickman, R.G., Craddock, Campbell, and Sherwood, K.W., 1977, Structural geology of the Nenana River segment of the Denali fault system, central Alaska Range: Geological Society America Bulletin, v. 88, no. 9, p. 1217–1230.
- Hicks, S.D., and Shofnos, William, 1965, The determination of land emergence from sea level observations in southeastern Alaska: Journal of Geophysical Research, v. 70, no. 14, p. 3315–3320.
- Higgins, M. W., 1971, Cataclastic rocks: U.S. Geological Survey Professional Paper 687, 97 p.
- Hildreth, E. W., 1983, The compositionally zoned eruption of 1912 in the Valley of Ten Thousand Smokes, Katmai National Park, Alaska: Journal of Volcanology and Geothermal Research, v. 18, p. 1–56.
- Hildreth, E. W., 1987, New perspectives on the eruption of 1912 in the Valley of Ten Thousand Smokes, Katmai National Park, Alaska: Bulletin of Volcanology, v. 49, p. 680–693.
- Hildreth, W.E., and Moorbath, S., 1988, Crustal contributions to arc magmatism in the Andes of Central Chile: Contributions to Mineralogy and Petrology, v. 98, p. 455–489.
- Hill, B.B., and Brandon, J., 1976, Layered basic and ultrabasic rocks, Kodiak Island, Alaska; The lower portion of a dismembered ophiolite?: EOS (Transactions of the American Geophysical Union), v. 57, p. 1027.
- Hill, J.M., 1933, Lode deposits of the Fairbanks district, Alaska: U.S. Geological Survey Bulletin 849–B, p. 29–163.

- Hill, M.D., 1979, Volcanic and plutonic rocks of the Kodiak-Shumagin Shelf, Alaska: Subduction deposits and near-trench magmatism: Santa Cruz, University of California, Ph.D. dissertation, 274 p.
- Hill, M.D., Morris, J., and Whelan, J. 1981, Hybrid granodiorites intruding the accretionary prism, Kodiak, Shumagin, and Sanak Islands, southwest Alaska: Journal of Geophysical Research, v. 86, no. 11, p. 10,569–10,590.
- Hill, M.L., 1984, Geology of the Redcap Mountain area, Coast Plutonic Complex, British Columbia: Princeton, New Jersey, Princeton University, Ph.D. dissertation, 216 p.
- Hill, M.L., 1985, Remarkable fossil locality; Crinoid stems from migmatite of the Coast Plutonic Complex, British Columbia: Geology, v. 13, p. 825–826.
- Hill, M.L., Woodsworth, G.J., and van der Heyden, P., 1985, The Coast Plutonic Complex near Terrace, B.C.; A metamorphosed western extension of Stikinia [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 362
- Hillhouse, J.W., 1977, Paleomagnetism of the Triassic Nikokai Greenstone, McCarthy quadrangle, Alaska: Canadian Journal of Earth Sciences, v. 14, p. 2578–2592.
- Hillhouse, J.W., 1987, Accretion of southern Alaska, *in* Kent, D.V., and Krs, M., eds., Laurasian paleomagnetism and tectonics: Tectonophysics, v. 139, p. 107–122.
- Hillhouse, J.W., and Grommé, C.S., 1977, Paleomagnetic poles from sheeted dikes and pillow basalt of the Valdez(?) and Orca Groups, southern Alaska [abs.]: EOS (Transactions of the American Geophysical Union), v. 58, p. 1127.
- Hillhouse, J.W., and Grommé, C.S., 1980, Paleomagnetism of the Triassic Hound Island volcanics, Alexander terrane, southeastern Alaska: Journal of Geophysical Research, v. 85, p. 2594–2602.
- Hillhouse, J.W., and Grommé, C.S., 1982, Limits to northward drift of the Paleocene Cantwell Formation, central Alaska: Geology, v. 10, p. 552–556.
- Hillhouse, J.W., and Grommé, C.S., 1982, Cretaceous overprint revealed by paleomagnetic study in the northern Brooks Range *in* Coonrad, W.L., ed., The U.S. Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 43–46.
- Hillhouse, J.W., and Grommé, C.S., 1983, Paleomagnetic studies and the hypothetical rotation of Arctic Alaska: Anchorage, Alaska Geological Society Journal, v. 2, p. 27–39.
- Hillhouse, J.W., and Grommé, C.S., 1984, Northward displacement and accretion of Wrangellia; New paleomagnetic evidence from Alaska: Journal of Geophysical Research, v. 89, p. 4461–4477.
- Hillhouse, J.W., and Grommé, C.S., 1985, Paleomagnetism of sedimentary rocks, Prince William Sound and Yakutat terranes, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 60–62.
- Hillhouse, J.W., and Grommé, C.S., 1988, Cretaceous remagnetization of Paleozoic sedimentary rocks in the Brooks Range, Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 633–644.
- Hillhouse, J.W., Gromme, C.S., and Csejtey, Béla, Jr., 1984, Paleomagnetism of early Tertiary volcanic rocks in the northern Talkeetna Mountains, *in* Reed, K.M., and Bartsch-Winkler, Susan, eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 50–52.
- Hillhouse, J.W., Grommé, C.S., and Csejtey, Béla, Jr., 1985, Tectonic implications of paleomagnetic poles from lower Tertiary volcanic rocks, south central Alaska: Journal of Geophysical Research, v. 90, no. B14, p. 12,523–12,535.
- Hillhouse, J.W., Grommé, C.S., and Vallier, T.L., 1982, Paleomagnetism and Mesozoic tectonics of the Seven Devils volcanic arc in northeastern Oregon: Journal of Geophysical Research, v. 87, p. 3777–3794.
- Himmelberg, G.R., and Loney, R.A., 1981, Petrology of the ultramafic and gabbroic rocks of the Brady Glacier nickel-copper deposit, Fairweather Range, southeastern Alaska: U.S. Geological Survey Professional Paper 1195, 26 p.
- Himmelberg, G.R., Ford, A.B., and Brew, D.A., 1984, Progressive metamorphism of pelitic rocks in the Juneau area, southeastern Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey 868, p. 131–134.
- Himmelberg, G.R., Loney, R.A., and Craig, J.T., 1986, Petrogenesis of the ultramafic complex at the Blashke Islands, southeastern Alaska: U.S. Geological Survey Bulletin 1662, 14 p.
- Himmelberg, G.R., Loney, R.A., and Nabelek, P.I., 1987, Petrogenesis of gabbronorite at Yakobi and northwest Chichagof Islands, Alaska: Geological Society of America Bulletin, v. 98, no. 3, p. 265–279.

- Hinze, W.J., 1976, Report of the SEG committee for a National Magnetic Anomaly Map: Geophysics, v. 41, no. 5, p. 1055.
- Hite, D.M., 1976, Some sedimentary aspects of the Kenai Group, Cook Inlet, Alaska, *in* Miller, T.P., ed., Recent and ancient sedimentary environments in Alaska (Proceedings, Alaska Geological Society Symposium, April 2 4, 1975, Anchorage, Alaska): Anchorage, Alaska Geological Society, p.11–123.
- Hite, D.M., and Nakayama, E.M., 1980, Present and potential petroleum basins of Alaska, *in* Landwehr, M.L., ed., New ideas, new methods, new developments: Exploration and Economics of the Petroleum Industry, v. 18, p. 511–560.
- Hitzman, M.W., 1980, Devonian to recent tectonics of the southwestern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 12, p.447.
- Hitzman, M.W., 1982, The metamorphic petrology of the southwestern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 14, p. 173.
- Hitzman, M.W., 1983, Geology of the Cosmos Hills and its relationship to the Ruby Creek copper-cobalt deposit: Palo Alto, Calif., Stanford University, Ph.D. dissertation, 266 p.
- Hitzman, M.W., 1984, Geology of the Cosmos Hills; Constraints for Yukon-Koyukuk basin evolution [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 290.
- Hitzman, M.W., 1986, Geology of the Ruby Creek copper deposit, southwestern Brooks Range, Alaska: Economic Geology, v. 81, p. 1644–1674.
- Hitzman, M.W., Proffett, J.M., Jr., Schmidt, J.M., and Smith, T.E., 1986, Geology and mineralization of the Ambler district, northwestern Alaska: Economic Geology, v. 81, no. 7, p. 1592–1618.
- Hitzman, M.W., Smith, T.E., and Proffett, J.M., Jr., 1982, Bedrock geology of the Ambler district, southwestern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 75, 2 sheets, scale 1:125,000.
- Hoare, J.M., 1961, Geology and tectonic setting of lower Kuskokwim Bristol Bay region, Alaska: American Association of Petroleum Geologists Bulletin, v. 45, p. 594–611.
- Hoare, J.M., and Condon, W.H., 1966, Geologic map of the Kwiguk and Black quadrangles, western Alaska: U.S. Geological Survey Miscellaneous Geologic Investigation Map I–469, scale 1:250,000.
- Hoare, J.M., and Condon, W.H., 1968, Geologic map of the Hooper Bay quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geology Investigations Map I–523, 4 p., 1 sheet, scale 1:250,000.
- Hoare, J.M., and Condon, W.H., 1966, Geologic map of the Kwiguk and Black quadrangles, western Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–469, scale 1:250,000.
- Hoare, J.M., and Condon, W.H., 1971, Geologic map of the Marshall quadrangle, western Alaska, U.S. Geological Survey Miscellaneous Geological Investigations Series Map 1–668, scale I :250,000.
- Hoare, J.M., and Condon, W.H., 1971, Geologic map of the St. Michael quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map 1–682, scale 1:250,000
- Hoare, J.M., and Coonrad, W.L., 1959, Geology of the Bethel quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geological Investigations Map 1–285, scale 1:250,000.
- Hoare, J.M., and Coonrad, W.L., 1959, Geology of the Russian Mission quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geological Investigations Map 1–292, scale 1:250,000.
- Hoare, J.M., and Coonrad, W.L., 1961, Geologic map of the Goodnews quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–339, scale 1:250,000.
- Hoare, J.M., and Coonrad, W.L., 1961, Geologic map of the Hagemeister Island quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–321, scale 1:250,000.
- Hoare, J.M., and Coonrad, W.L., 1977, Blue amphibole occurrences in southwestern Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B39.
- Hoare, J.M., and Coonrad, W.L., 1978, New geologic map of the Goodnews and Hagemeister Island quadrangles, Alaska, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B50–B55, B112–B113.
- Hoare, J.M., and Coonrad, W.L., 1978, Lawsonite in southwest Alaska, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B55–B57.

- Hoare, J.M., and Coonrad, W.L., 1978, Geologic map of the Goodnews and Hagemeister Island quadrangles region, southwestern Alaska, U.S. Geological Survey Open-File Report 78–9–B, scale I:250,000.
- Hoare, J.M., and Coonrad, W.L., 1979, The Kanektok metamorphic complex, a rootless belt of Precambrian rocks in southwestern Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The U.S. Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B72–B74.
- Hoare, J.M., and Coonrad, W.L., 1983, Graywacke of Buchia Ridge and correlative Lower Cretaceous rocks in the Goodnews Bay and Bethel quadrangles, southwestern Alaska: U.S. Geological Survey Bulletin 1529–C, 17 p.
- Hoare, J.M., and Jones, D.L., 1981, Lower Paleozoic radiolanan chert and associated rocks in the Tikchik Lakes area, southwestern Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B44–B45.
- Hoare, J.M., Condon, W.H., and Patton, W.W., Jr., 1964, Occurrence and origin of laumontite in Cretaceous sedimentary rocks in western Alaska: U.S. Geological Survey Professional Paper 501–C, p. C74–78.
- Hoare, J.M., Coonrad, W.L., and McCoy, S., 1983, Summit Island Formation; A new Upper Cretaceous formation in southwestern Alaska: U.S. Geological Survey Bulletin 1529–B, 18 p.
- Hoare, J.M., Forbes, R.B., and Turner, D.L., 1974, Precambrian rocks in southwest Alaska, *in* Carter, C., ed., The United States Geological Survey in Alaska: accomplishments during 1973: U.S. Geological Survey Circular 700, p. 46.
- Hoare, J.M., Condon, W.H., Cox, Allan, and Dalrymple, G.B. 1959, Geology of the Russian Mission quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–292, scale 1:250,000.
- Hoare, J.M., Condon, W.H., Cox, Allan, and Dalrymple, G.B., 1968, Geology, paleomagnetism, and potassium-argon ages of basalts from Nunivak Island, Alaska, *in* Coats, R.R., Hay, R.L., and Anderson, C.A., eds., Studies in volcanology: A memoir in honor of Howell Williams: Geological Society of America Memoir 116, p. 377–414.
- Hoare, J.M., Condon, W.H., Cox, Allan, and Dalrymple, G.B. 1978, A tuya in Togiak Valley, southwest Alaska: U.S. Geological Survey Journal of Research, v. 6, no. 2, p. 193–201.
- Hoare, J.M., Condon, W.H., Cox, Allan, and Dalrymple, G.B. 1978, Geologic map of the Goodnews and Hagemeister Island quadrangles region, southwestern Alaska: U.S. Geological Survey Open-File Report 78–9–B, scale 1:250,000.
- Hoare, J.M., Condon, W.H., Cox, Allan, and Dalrymple, G.B. 1980, The Togiak Basalt: a new formation in southwestern Alaska: U.S. Geological Survey Bulletin 1482–C, p. C1–C11.
- Hoekstra, P., Sellmann, P.V., and Delaney, A.J., 1975, Ground and airborne resistivity surveys of permafrost near Fairbanks, Alaska: Geophysics, v. 40, no. 4, p. 641–656.
- Hoffman, B.L., 1974, Geology of the Bernard Mountain area, Tonsina, Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 1 plate, 68 p.
- Hoffman, P.F., 1989, Precambrian geology and tectonic history of North America, *in* Bally, A.W., and Palmer, A.R., eds., The geology of North America—An overview: Boulder, Colo., Geological Society of America, Geology of North America, v. A, p. 447–512.
- Hogan, L.G., Scheidegger, K.F., Kulm, L.D., Dymond, J., and Mikkelsen, N., 1978, Biostratigraphic and tectonic implications of ⁴⁰Ar-³⁹Ar dates of ash layers from the northeast Gulf of Alaska: Geological Society of America Bulletin, v. 189, p. 1259–1264.
- Hok, J.R., 1969, A reconnaissance of tractor trails and related phenomena on the North Slope of Alaska: U.S. Department of Interior, Bureau of Land Management, 66 p.
- Holdaway, M.J., 1971, Stability of andalusite and the aluminum silicate phase diagram: American Journal of Science, v. 271, no. 2, p. 97–131.
- Holdsworth, B.K., and Murchey, B.L., 1988, Paleozoic radiolarian biostratigraphy of the northern Brooks Range, Alaska, in Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 777–797.
- Holdsworth, B., and Jones, D.L., 1979, Late Paleozoic fossils in ophiolite, northeastern Alaska: U.S. Geological Survey Professional Paper 1150, p. 95.
- Hollick, A., 1930, The Upper Cretaceous floras of Alaska: U.S. Geological Survey Professional Paper 159, 123 p.
- Hollister, L.S., 1979, Metamorphism and crustal displacements: New insights: Episodes, v. 1979, no. 3, p. 3-8.
- Hollister, L.S., 1982, Metamorphic evidence for rapid (2 mm/yr) uplift of a portion of the Central Gneiss Complex, Coast Mountains, British Columbia: Canadian Mineralogist, v. 20, p. 319–332.

- Hollister, L.S., and Crawford, M.L., 1986, Melt-enhanced deformation: A major tectonic process: Geology, v. 14, p. 558–561.
- Hollister, V.F., 1978, Geology of the porphyry copper deposits of the Western Hemisphere: Society of Mining Engineering, American Institute of Mining, Metallurgy, and Petroleum Engineers Incorporated, 218 p.
- Hollister, V.F., Anzalone, S.A., and Richter, D.H., 1975, Porphyry copper deposits of southern Alaska and contiguous Yukon Territory: Canadian Institute of Mining and Metallurgy Bulletin, v. 68, p. 104–112.
- Holm, Bjarne, 1973, Bedrock geology and mineralization of the Mt. Prindle area, Yukon-Tanana Upland, Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 55 p.
- Holmes, G.W., 1965, Geologic reconnaissance along the Alaska highway, Delta River to Tok Junction, Alaska: U.S. Geological Survey Bulletin 1181–H, p. H1–H19.
- Holmes, G.W., and Foster, H.L., 1968, Geology of the Johnson River area, Alaska: U.S. Geological Survey Bulletin 1249, 1 plate, scale, 1:63,360, 49 p.
- Holmes, G.W., Hopkins, D.M., and Foster, H.L., 1968, Pingos in central Alaska: U.S. Geological Survey Bulletin 1241-H, 40 p.
- Holmes, M.L., Cline, J. and Johnson, J.L., 1978, Geological setting of the Norton Basin gas seep: Proceedings of the 10th Annual Offshore Technology Conference, Houston, Tex., 1978, v. 1, p. 73–80.
- Homza, T.X. 1991, Geologic map, cross section, and structural geology of an area southwest of Bathtub Ridge, northeastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 91–9, scale 1:25,000, 21 p.
- Hooper, C.L., 1881, Report of the cruise of the U.S. Treasury Department Steamer *Corwin* in the Arctic Ocean in 1880: Washington, D.C., U.S. Treasury Department Document 118, 71 p.
- Hooper, C.L., 1884, Report of the cruise of the U.S. Revenue Steamer *Corwin* in the Arctic Ocean in 1881: Washington, D.C., U.S. Treasury Department Document 601, 147 p.
- Hoose, P.J., 1987, Seismic stratigraphy and tectonic evolution of the Kodiak shelf, *in* Turner, R.F., ed., Geological and operational summary, Kodiak shelf stratigraphic test wells, western Gulf of Alaska: Anchorage, Alaska, Minerals Management Service Outer Continental Shelf Report MMS 87–0109, p. 71–101.
- Hoose, P.J. and Whitney, J., 1980, Map showing selected geologic features on the outer continental shelf, Shelikof Strait, Alaska: U.S. Geological Survey Open-File Report 80–2035, scale 1:250,000.
- Hoose, P.J., Steffy, D.A. and Lybeck, L.D., 1981, Isopach map of Quaternary and Upper Tertiary strata, Norton Sound, Alaska: U.S. Geological Survey Open-File Report 81–723, scale 1:250,000.
- Hopkins, B.A., 1983, Geologic maps in Alaska published by the U.S. Geological Survey, post-1930: Scales 1:96,000 to 1:250,000: U.S. Geological Survey Open-File Report 83–577, 1 plate, scale 1:2,500,000, 19 p.
- Hopkins, B.A., 1983, Geologic maps in Alaska published by the U.S. Geological Survey, post-1930: scales 1:20,000 to 1:63,360: U.S. Geological Survey Open-File Report 83–578, 1 plate, scale 1:2,500,000, 17 p.
- Hopkins, D.M., 1951, Lignite deposits near Broad Pass Station, Alaska: U.S. Geological Survey Bulletin 963–E, p. 187–191, plate 26.
- Hopkins, D.M., 1963, Geology of the Imuruk Lake area Seward Peninsula Alaska: U.S. Geological Survey Bulletin 1141–C, p. C1–C101.
- Hopkins, D.M., 1973, Sea level history in Beringia during the past 250,000 years: Quaternary Research, v. 3, p. 520-540.
- Hopkins, D.M., 1975, Time-stratigraphic nomenclature for the Holocene epoch: Geology, v.3, p. 10.
- Hopkins, D.M., 1976, Fault history of the Pribilof Islands and its relevance to bottom stability in the St. George Basin, *in* Environmental Assessment of the Alaskan Continental Shelf: National Oceanic and Atmospheric Administration and Bureau of Land Management, Annual Reports from Principal Investigations, v. 13, p. 41–67.
- Hopkins, D.M., 1982, Aspects of the paleogeography of Beringia during the late Pleistocene, *in* Hopkins, D.M., Matthews, J.V., Jr., Schweger, C.E., and Young, S.B., eds., Paleoecology of Beringia: New York, Academic Press, p. 3–28.
- Hopkins, D.M., and Silberman, M.L., 1978, Potassium-argon ages of basement rocks from Saint George Island, Alaska: U.S. Geological Survey Journal of Research, v. 6, no. 4, p. 435–438.
- Hopkins, D.M., and 6 others, 1955, Permafrost and ground water in Alaska: U.S. Geological Survey Professional Paper 264–F, p. 113–146.

- Hopkins, D.M., and 10 others, 1969, Cretaceous, Tertiary, and early Pleistocene rocks from the continental margin in the Bering Sea: Geological Society of America Bulletin, v. 80, p. 1471–1480.
- Hopkins, D.M., Benson, S., Brigham-Grette, J., Heiser, P., and Ivanov, V., 1992, Ice sheets on the Bering shelf?, International Conference on Arctic Margins, Anchorage, Alaska, September 1992, Abstracts, p. 27.
- Hopkins, D.M., ed., 1967, The Bering Land Bridge: Stanford, Calif., Stanford University Press, 485 p.
- Hopkins, D.M., Matthews, J.V., Wolfe, J.A., and Silberman, M.L., 1971, A Pliocene flora and insect fauna for the Bering Strait region: Paleogeography, Paleoclimatology, Paleoecology, v. 9, no. 3, p. 211–231.
- Hopkins, D.M., Pratt, R., Nelson, R.E. and Powell, C.L., 1983, Glacial sequence southweastern Seward Peninsula, *in* Thorson, R.M., and Hamilton, T.D., eds., Glaciation in Alaska, Fairbanks, Alaska Quaternary Center Occasional Paper no. 2, University of Alaska, p. 45–50.
- Hopkins, D.M., Rowland, R.W., and Patton, W.W., Jr., 1972, Middle Pleistocene mollusks from St. Lawrence Island and their significance for the paleoceanography of the Bering Sea: Quaternary Research, v. 2, p. 119–134.
- Hopkins, D.M., Rowland, R.W., Echols, R.E., and Valentine, P.C., 1974, An Anvilian (Early Pleistocene) marine fauna from western Seward Peninsula, Alaska: Quaternary Research, v. 4, no. 4, p. 441–470.
- Hottman, C.E., Smith, J.H., and Purcell, W.R., 1979, Relationship among earth stresses, pore pressure, and drilling problems offshore Gulf of Alaska: Journal of Petroleum Technology, v. 31, p. 1477–1484.
- House, M.R., and Blodgett, R.B., 1982, The Devonian goniatite genera *Anacites* and *Foordites* from Alaska: Canadian Journal of Earth Sciences, v.19, no.9, p. 1873–1876.
- Houtz, R.E., Eittreim, S., and Grantz, A., 1981, Acoustic properties of northern Alaska shelves in relation to the regional geology: Journal of Geophysical Research, v. 86, no. B5, p. 3935–3943.
- Howard, K.A., and 12 others, 1978, Preliminary map of young faults in the United States as a guide to possible fault activity: U.S. Geological Survey Miscellaneous Field Studies Map MF–916, 2 sheets, scale 1:5,000,000 and 1:7,500,000.
- Howard, W.R., 1935, Salt Chuck copper-palladium mine: Alaska Territorial Department of Mines Report MR 119-4, 22 p.
- Howell, D.G., 1989, Tectonics of suspect terranes: London, New York, Chapman and Hall, 231 p.
- Howell, D.G., and Wiley, T.J., 1987, Crustal evolution of northern Alaska inferred from sedimentology and structural relations in the Kandik area: Tectonics, v. 6, 619–631.
- Howell, D.G., Bird, K.J, Huafu, L., and Johnsson, M.J., 1992, Tectonics and petroleum potential of the Brooks Range fold and thrust belt—A progress report, *in* Bradley, D.C., and Ford, A.B., Geologic studies in Alaska by the U.S. Geological Survey, 1990: U.S. Geological Survey Bulletin 1999, p. 112–126.
- Howell, D.G., Johnsson, M.J., Underwood, M.B., Huafu, L., and Hillhouse, J.W., 1992, Tectonic evolution of the Kandik region, east-central Alaska: Preliminary interpretations, *in* Bradley, D.C., and Ford, A.B., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1990: U.S. Geological Survey Bulletin 1999, p. 127–140.
- Howell, D.G., Jones, D.L., and Coney, P.J., 1986, Convergent-margin geologic characterization for deep source hydrocarbon potential, in Deep source gas/gas hydrates: U.S. Geological Survey Quarterly Report (Annual Summary) for Department of Energy, Contract DE-AI21-83-MC20422, 11 p.
- Howell, D.G., Jones, D.L., and Schermer, E.R., 1985, Tectonostratigraphic terranes of the Circum-Pacific region, *in* Howell, D.G., ed., Tectonostratigraphic terranes of the Circum-Pacific region: Houston, Texas, Circum-Pacific Council for Energy and Mineral Resources, Earth Sciences Series no. 1, p. 3–30.
- Howell, D.G., Murray, R.W., Wiley, T.J., Boundy-Sanders, S., and Kaufman–Linam, L., 1987, Sedimentology and tectonics of the Devonian Nation River Formation, Alaska, part of yet another allocthonous terrane [abs.]: American Association of Petroleum Geologists Abstracts with Programs, v. 71, p. 569.
- Hsü, K.J., 1968, The principles of melanges and their bearing on the Franciscan Knoxville paradox: Geological Society of America Bulletin, v. 79, p. 1063–1074.
- Hsui, A.T., Marsh, B.D., and Toksoz, M.N., 1983, On melting of the subducted oceanic crust; Effects of subduction induced mantle flow: Tectonophysics, v. 99, p. 207–220.
- Hubbard, B., 1932, Alaska's Shishaldin; The first ascent of "Smoky Moses": Saturday Evening Post, August 13, p. 8+.
- Hubbard, B., 1932, Mush, you malemutes!: New York, The American Press, 179 p.
- Hubbard, B., 1936, Cradle of the storms: London, George G. Harrap and Co., 285 p.

- Hubbard, R.J., Edrich, S.P., and Rattey, R.P., 1987, Geologic evolution and hydrocarbon habitat of the Arctic Alaska microplate, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 797–830.
- Hubbard, R.J., Edrich, S.P., and Rattey, R.P., 1987, Geologic evolution and hydrocarbon habitat of the "Arctic Alaska Microplate": Marine and Petroleum Geology, v. 4, no. 1, p. 2–34.
- Hudson, T., 1977, Geologic map of the Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–796A, 1 sheet, scale 1:1,000,000.
- Hudson, T., 1977, Genesis of a zoned granite stock, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–35, 188 p., 1 sheet, scale 1:63,360.
- Hudson, T., 1979, Igneous and metamorphic rocks of the Serpentine Hot Springs area, Seward Peninsula, Alaska: U.S. Geological Survey Professional Paper 1079, 27 p., 1 sheet, scale 1:48,000.
- Hudson, T., 1979, Mesozoic plutonic belts of southern Alaska: Geology, v. 7, p. 230-234.
- Hudson, T., 1983, Calc-alkaline plutonism along the Pacific rim of southern Alaska, *in* Roddick, J.A., ed., Circum-Pacific plutonic terranes: Geological Society of America Memoir 159, p. 159–169.
- Hudson, T., and Arth, J.G., 1983, Tin granites of Seward Peninsula, Alaska: Geological Society of America Bulletin, v. 94, p. 768–790.
- Hudson, T., and DeYoung, J.R., Jr., 1978, Map and tables describing areas of mineral resource potential, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 781–C, 62 p., 1 sheet, scale 1:1,000,000.
- Hudson, T., and Plafker, G., 1978, Kigluaik and Bendeleben faults, Seward Peninsula: *in* Johnson, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1977: U.S. Geological Survey Circular 772–B, p. B47–B50.
- Hudson, T., and Plafker, G., 1981, Emplacement age of the Crillon-La Perouse pluton, Fairweather Range, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B90–B94.
- Hudson, T., and Plafker, G., 1982, Paleogene metamorphism of an accretionary flysch terrane, eastern Gulf of Alaska: Geological Society of America Bulletin, v.93, p.1280–1290.
- Hudson, T., and Weber, F.R., 1977, The Donnelly Dome and Granite Mountain faults, south-central Alaska: *in* Blean, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1976: U.S. Geological Survey Circular 751–B, p. B64–B66.
- Hudson, T., Arth, J.G., and Muth, K.G., 1981, Geochemistry of intrusive rocks associated with molybdenite deposits, Ketchikan quadrangle, southeastern Alaska: Economic Geology, v. 76, p. 1225–1232.
- Hudson, T., Arth, J.G., Winkler, G.W., and Stern, T.W., 1985, Jurassic plutonism along the Gulf of Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 362.
- Hudson, T., compiler, 1977, Geologic map of Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–796A, scale 1:1,000,000.
- Hudson, T., Dixon, K., and Plafker, G., 1982, Regional uplift in southeastern Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 132–135.
- Hudson, T., Miller, M.L., and Pickthorn, W.J., 1977, Map showing metalliferous and selected nonmetalliferous mineral deposits, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 77–796B, 46 p., 1sheet, scale 1:1,000,000.
- Hudson, T., Plafker, G., and Dixon, K., 1982, Horizontal offset history of the Chatham Strait fault, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 128–132.
- Hudson, T., Plafker, G., and Lanphere, M.A., 1977, Intrusive rocks of the Yakutat St. Elias area, south-central Alaska: U.S. Geological Survey Journal of Research, v. 5, no. 2, p. 155–172.
- Hudson, T., Plafker, G. and Peterman, Z.E., 1979, Paleogene anatexis along the Gulf of Alaska margin: Geology, v. 7, no. 12, p. 573–577.
- Hudson, T., Plafker, G., and Rubin, M., 1976, Uplift rates of marine terrace sequences in the Gulf of Alaska, *in* Cobb, E.H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U.S. Geological Survey Circular 733, p. 11–13.

- Hudson, T., Plafker, G., and Turner, D.L., 1977, Metamorphic rocks of the Yakutat St. Elias area, south-central Alaska: U.S. Geological Survey Journal of Research, v. 5, no. 2, p. 173–184.
- Hudson, T., Smith, J.G., and Elliott, R.L., 1979, Petrology, composition, and age of intrusive rocks associated with the Quartz Hill molybdenite deposit, southeastern Alaska: Canadian Journal of Earth Sciences, v. 16, no. 9, p. 1805–1822.
- Hudson, T.L., 1985, Jurassic plutonism along the Gulf of Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 362.
- Hudson, T.L., and Arth, J.G., 1983, Tin granites of Seward Peninsula, Alaska: Geological Society of America Bulletin, v. 94, p. 768–790.
- Huffman, A.C., Jr., Ahlbrandt, T.S., and Bartsch-Winkler, S., 1988, Sedimentology of the Nanushuk Group, North Slope, Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 1982: U.S. Geological Survey Professional Paper 1399, p. 281–298.
- Huffman, A.C., Jr., Ahlbrandt, T.S., Pasternac, I., Stricker, G.D., and Fox, J.E., 1985, Depositional and sedimentologic factors affecting the reservoir potential of the Cretaceous Nanushuk Group, central North Slope, Alaska, *in* Huffman, A.C., Jr., ed., Geology of the Nanushuk Group and related rocks, North Slope, Alaska: U.S. Geological Survey Bulletin 1614, p. 61–74.
- Huffman, A.C., Jr., ed., 1985, Geology of the Nanushuk Group and related rocks, North Slope, Alaska: U.S. Geological Survey Bulletin 1614, 129 p.
- Hughes, J.D., and Long, D.G.F., 1979, Geology and coal resource potential of Early Tertiary strata along Tintina trench, Yukon Territory: Geological Survey of Canada Paper 79–32, 21 p.
- Hughes, O.L., Rutter, N.W., and Clague, J.J., 1989, Quaternary stratigraphy and history; Yukon Territory, *in* Clague, J.J. compiler, Quaternary geology of the Canadian Cordillera, *in* Fulton, R.J., ed., Quaternary geology of Canada and Greenland: Geological Survey of Canada, The Geology of North America, v. K–l, p. 58–62.
- Hughes, W.B. and Holba, A.G., 1988, Relationship between crude oil quality and biomarker patterns, *in* Mattavelli, L., and Novelli, L., eds., Advances in organic geochemistry in 1987, part 1, Organic geochemistry in petroleum exploration: Organic Geochemistry, v. 13, p. 15–30.
- Huish, R., compiler, 1836, Voyages of Captain Beechey to the Pacific 1825-28 and of Captain Back to the Arctic Sea: London, William Wright, 704 p.
- Hunkins, K., 1966, The Arctic continental shelf north of Alaska, *in* Poole, W.H., ed., Continental margins and island arcs: Geological Survey of Canada Paper 66–15, p. 197–205.
- Hunt, S.J., 1984, Preliminary study of a zoned leucocratic-granite body on central Etolin Island, southeastern Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 128–131.
- Hunter, R.E., and Fox, J.E., 1976, Interpretation of depositional environments in the Fortress Mountain Formation, central Arctic Slope, *in* Cobb, E.H., ed. The United States Geological Survey in Alaska: accomplishments during 1975: U.S. Geological Survey Circular 733, p. 30–31.
- Husky Oil NPR Operations, Inc., 1982-1983, Geological reports of test wells in National Petroleum Reserve in Alaska: Unpublished reports of Husky Oil NPR Operations Inc. Copies of these reports are available for purchase from the National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, Colo. 80303.
- Huston, M.M., Brigham-Grette, J., and Hopkins, D.M., 1990, Paleogeographic significance of middle Pleistocene glaciomarine deposits on Baldwin Peninsula, northwest Alaska: Annals of Glaciology, v. 14, p. 111–114.
- Hutchison, W.W., 1982, Geology of the Prince Rupert-Skeena map area, British Columbia: Geological Survey of Canada Memoir 394, 116 p., scale1 :250,000.
- Hutchison, W.W., 1970, Metamorphic framework and plutonic styles in the Prince Rupert region of the Central Coast Mountains, British Columbia: Canadian Journal of Earth Science, v. 7, no. 2, p. 376–405.
- Hwang, L.S. and Kanamori, Hiroo, 1986, Of the May 7, 1986 Andreanof Islands earthquake source parameters, Geophysical Research Letters, v. 13, p. 1426–1429.
- Hytoon, M., 1979, Geology of the Clinton Creek asbestos deposit, Yukon Territory: Vancouver, University of British Columbia, Master's thesis, 67 p.
- Imlay, R.W., 1984, Early and middle Bajocian (Middle Jurassic) ammonites from southern Alaska: U.S. Geological Survey Professional Paper 1322, 38 p.

- Imlay, R.W., and Detterman, R.L., 1973, Jurassic paleobiogeography of Alaska: U.S. Geological Survey Professional Paper 801, 34 p.
- Imlay, R.W., and Detterman, R.L., 1977, Some Lower and Middle Jurassic beds in Puale Bay Alinchak Bay area, Alaska Peninsula: American Association of Petroleum Geologists Bulletin, v. 61, p. 607–611.
- Imm, T.A., 1986, Preliminary detailed stratigraphic sections and bedrock maps of the Lisburne Group rocks of Mt. Michelson C-3 and C-4 quadrangles, western Sadleochit and northwest Shublik Mountains, northeastern Alaska: Fairbanks, Alaska Divisions of Mining and Geological and Geophysical Surveys Public Data File 86-86e, 34 p., scale 1:25,000, 2 sheets.
- International Association of Geodsey, 1971, Geodetic Reference System, 1967: Paris Bureau Central de l'Association Internationale de Geodesie, Special Publication, 3, 116 p.
- International Seismological Centre, International Seismological Summary or Bulletin of the International Seismological Centre, U. K.
- Irvine, T.N., 1967, The Duke Island ultramafic complex, southeastern Alaska, *in* Wyllie, P.J., ed., Ultramafic and related rocks: New York, John Wiley and Sons, p. 84–97.
- Irvine, T.N., 1973, Bridget Cove volcanics, Juneau area, Alaska; Possible parental magma of Alaska-type ultramafic complexes: Carnegie Institution of Washington Year Book 72, p. 478–491.
- Irvine, T.N., 1974, Petrology of the Duke Island ultramafic complex, southeastern Alaska: Geological Society of America Memoir 138, 240 p.
- Irvine, T.N., and Baragar, W.R., 1971, A guide to the chemical classification of the common volcanic rocks: Canadian Journal of Earth Sciences, v.8, no. 5, p. 523–548.
- Irving, A.J., and Frey, F.A., 1984, Trace element abundances in megacrysts and their host basalts; Constraints on partition coefficients and megacryst genesis: Geochimica et Cosmochimica Acta, v. 48, p. 1201–1221.
- Irving, A.J., 1974, Megacrysts from the Newer Basalts and other basaltic rocks of southeastern Australia: Geological Society of America Bulletin, v. 85, p. 1503–1514.
- Irving, E., 1979, Paleopoles and paleolatitudes of North America and speculations about displaced terranes: Canadian Journal of Earth Sciences, v. 16, p. 669–694.
- Irving, E., and Irving, G.A., 1982, Apparent polar wander paths Carboniferous through Cenozoic and the assembly of Gondwana: Geophysical Surveys, v. 5, p. 141–188.
- Irving, E., and Monger, J.W.H., 1987, Preliminary paleomagnetic results form the Permian Asitka Group, British Columbia: Canadian Journal of Earth Sciences, v. 24, p. 1490–1497.
- Irving, E., and Strong, D.F., 1984, Evidence against large-scale Carboniferous strike-slip faulting in the Appalachian-Caledonian orogen: Nature, v. 310, p. 762–764.
- Irving, E., and Strong, D.F., 1985, Paleomagnetism of rocks from Burin Peninsula, Newfoundland; Hypothesis of late Paleozoic displacement of Acadia criticized: Journal of Geophysical Research, v. 90, p. 1949–1962.
- Irving, E., and Yole, R.W., 1972, Paleomagnetism and kinematic history of mafic and ultramafic rock in fold mountain belts: Ottawa, Canada Department of Energy Mines and Resources, Publications of the Earth Physics Branch, v.42, no.3, p.87–95.
- Irving, E., Monger, J.W.H., and Yole, R.W., 1980, New paleomagnetic evidence for displaced terranes in British Columbia, *in* Strangway, D.W., ed., The continental crust and its mineral deposits: Geological Association of Canada Special Paper 20, p. 441–456.
- Irving, E., Woodsworth, G.J., Wynne, P.J., and Morrison, A., 1985, Paleomagnetic evidence for displacement from south of the Coast Plutonic Complex, British Columbia: Canadian Journal of Earth Sciences, v. 22, p. 584–598.
- Irving, E.M., and Wynne, P.J., 1990, Paleomagnetic evidence bearing on the evolution of the Canadian Cordillera: Royal Society of London Philosophical Transactions, v. 331, p. 487–509.
- Isaacs, B.L., Oliver, J.E., and Sykes, L.R., 1968, Seismology and the new global tectonics: Journal of Geophysical Research, v. 73, p. 5855–5899.
- Ishihara, S., 1981, The granitoid series and mineralization, *in* Skinner, B.J., ed., Economic Geology Seventy-fifth Anniversary Volume: Economic Geology Publishing Co., p. 458–484.
- Isselhardt, C.F., Motyka, R.J., Matlick, J.S., Parmentier, P.P., and Huttrer, G.W., 1983, Geothermal resource model for the Makushin geothermal area, Unalaska Island, Alaska: Geothermal Resources Council Transactions, v. 7, p. 99–102.

- Ives, J.D., 1974, Permafrost, *in* Ives, J.D., and Barry, R.G., eds., Arctic and alpine environments: London, Methuen Press, p. 159–194.
- Jachens, R.C., and Roberts, C.W., 1981, Documentation for FORTRAN program, 'isocomp', for computing isostatic residual gravity: U.S. Geological Survey Open-File Report 81–574, 26 p.
- Jacob, K.H., Nakamura, K., and Davies, J.N., 1977, Trench-volcano gap along the Alaska-Aleutian arc; facts and speculations on the role of terrigeneous sediments, *in* Talwani, M., and Pitman, W.C.,III, eds., Island arcs, deep sea trenches, and back-arc basins: American Geophysical Union Maurice Ewing Series, p. 243–258.
- Jacobson, B., 1979, Geochronology and petrology of the Tkope River batholith in St. Elias Mountains, northwestern British Columbia: Vancouver, University of British Columbia, Bachelor of Science thesis: 47 p.
- Jacobson, Blair, Parrish, R.R., and Armstrong, R.L., 1980, Geochronology and petrology of the Tkope River batholith in the Saint Elias mountains, northwestern British Columbia: Geological Survey of Canada, Current Research, Paper 80–1B, p. 195–206.
- Jaffe, H.W., Gottfried, D., Waring, C.L., and Worthing, H.W., 1959, Lead-alpha age determinations of accessory minerals of igneous rocks (1953-1957): U.S. Geological Survey Bulletin 1097–B, p. 65–148.
- Jaggar, T.A., Jr., 1908, Journal of the technology expedition to the Aleutian Islands: The Technology Review, v. 10, p. 1–37.
- Jaggar, T.A., Jr., 1932, Aleutian eruptions, 1930 1932: Volcano Letter, no. 375, p. 1-4.
- Jahn, A., 1975, Problems of the periglacial zone (Zagadnienia strefy perglackalnej): Warsaw, Panstwowe Wydawnictwo Naukowe, 223 p. (Translated from Polish for the National Science Foundation, Washington, D.C.)
- James, T.S., Hollister, L.S., and Morgan, W.J., 1989, Thermal modeling of the Chugach Metamorphic Complex: Journal of Geophysical Research, v. 94, no. B4, p. 4411–4423.
- Jamison, H.C., Brockett, L.B., and McIntosh, R.A., 1980, Prudhoe Bay; A 10-year perspective, in Halbouty, M.T., ed., Giant oil and gas fields of the decade 1968-1978: American Association of Petroleum Geologists Memoir 30, p. 289-314.
- Jamison, W.R., 1987, Geometric analysis of fold development in overthrust terranes: Journal of Structural Geology, v. 9, p. 207–219.
- Jansons, U., Hoekzema, R.B., Kurtak, J.M., and Fechner, S.A., 1984, Mineral occurrences in the Chugach National Forest, south central Alaska: U.S. Bureau of Mines Open-File Report MLA 5–84, 2 sheets, scale 1:125,000, 43 p.
- Jasper, M.W., 1961, Mespelt mine, Medfra quadrangle: Fairbanks, Alaska Division of Mines and Minerals 1961 Annual Report, p. 49–58.
- Jeletzky, J.A., 1976, Mesozoic and ? Tertiary rocks of the Quatsino Sound, Vancouver Island, British Columbia: Geological Survey of Canada Bulletin 242–243 p.
- Jessup, D.D., 1985, Reconnaissance geology of the Chukchi platform; Westcentral Chukchi shelf, offshore Alaska: East Lansing, Michigan State University, Master's thesis, 105 p.
- Johannes, W., and Gupta, L.N., 1982, Origin and evolution of a migmatite: Contributions to Mineralogy and Petrology, v. 79, p. 114–123.
- Johnson, B.L., 1915, The gold and copper deposits of the Port Valdez district: U.S. Geological Survey Bulletin 622, p. 140–148.
- Johnson, B.R., and Karl, S.M., 1985, Geologic map of western Chichagof and Yakobi Islands, southeastern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map 1–1506, 1 sheet, scale 1:250,000, 15 p.
- Johnson, B.R., Kimball, A.L., and Still, J.C., 1982, Mineral resource potential of the Western Chichagof and Yakobi Islands wilderness study area, southeastern Alaska: U.S. Geological Survey Miscellaneous Field Map MF–1476B, 1 sheet, scale 1:125,000, 10 p.
- Johnson, J.G., and Blodgett, R.B., 1993, Russian Devonian brachiopod genera *Cvrtinoides* and *Komiella* in North America: Journal of Paleontology, v.67, p. 952–958.
- Johnson, J.L. and Holmes, M.L., 1978, report on surface and subsurface faulting in the Norton Sound and northeastern Chirikov basin, Alaska (1978): in Environmental Assessment of the Alaskan Continental Shelf, Annual Reports of Principal Investigators for the year ending March, 1978: Env. Res. Lab, Boulder, Colo., NOAA, U.S. Department of Commerce, v. 12, p. 203–227.

- Johnson, P.R., and Hartman, C.W., 1969, Environmental atlas of Alaska: Fairbanks, University of Alaska, 111 p. (2nd edition, January 1971).
- Johnson, R.G., 1982, Bruhnes-Matuyama magnetic reversal dated at 790,000 yr B.P. by marine-astronomical correlations: Quaternary Research, v. 17, p. 135–147.
- Johnston, A.D., 1986, Anhydrous P-T phase relations of near primary high-A1 basalt from the South Sandwich Islands; Implications for the origin of island arcs: Contributions to Mineralogy and Petrology, v. 92, p. 368–382.
- Johnston, D.A., 1978, Volatiles, magma mixing, and the mechanism of eruption of Augustine volcano, Alaska: Seattle, University of Washington, Ph.D. dissertation, 177 p
- Jones, B., 1977, Uranium-thorium bearing rocks of western Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 80 p.
- Jones, D.L., 1983, Recognition, character, and analysis of tectonostratigraphic terranes in western North America, in Hashimoto, M., and Uyeda, S., eds., Accretion tectonics in the Circum-Pacific regions: Boston, D. Reidel Publishing Co., p. 21–36.
- Jones, D.L., and Clark, S.H.B., 1973, Upper Cretaceous (Maestrichtian) fossils from the Kenai-Chugach Mountains, Kodiak and Shumagin Islands, southern Alaska: U.S. Geological Survey Journal of Research, v. 1, no. 2, p. 125–136.
- Jones, D.L., and Coney, P., 1989, Regional decollement at base of Hunt Fork Shale, eastern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 99.
- Jones, D.L., and Grantz, A., 1964, Stratigraphic and structural significance of Cretaceous fossils from Tiglukpuk Formation, northern Alaska: American Association of Petroleum Geologists Bulletin, v. 48, p. 1462–1474.
- Jones, D.L., and Silberling, N.J., 1979, Mesozoic stratigraphy; The key to tectonic analysis of southern and central Alaska: U.S. Geological Survey Open-File Report 79–1200, 37 p.
- Jones, D.L., and Silberling, N.J., 1982, Mesozoic stratigraphy key to tectonic analysis of southern Alaska and central Alaska, *in* Leviton, A.E., ed., Frontiers of geological exploration of western North America: San Francisco, Calif., Pacific Division, American Association of Petroleum Geologists, p. 139–153.
- Jones, D.L., Berg, H.C., Coney, P., and Harris, A., 1981, Structural and stratigraphic significance of Upper Devonian and Mississippian fossils from the Cannery Formation, Kupreanof Island, southeastern Alaska, in Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B109–B112.
- Jones, D.L., Bounday-Sanders, S., Murray, R.L., Howell, D.G., and Wiley, T.J., 1987, Tectonic contacts of miogeoclinal strata in east-central Alaska [abs.]: American Association of Petroleum Geologists Abstracts with Programs, v.71, p. 573.
- Jones, D.L., Coney, P.J., Harms, T.A., and Dillon, J.T., 1988, Interpretive geologic map and supporting radiolarian data from the Angayucham terrane, Coldfoot area, southern Brooks Range, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1993, scale 1:63,360.
- Jones, D.L., Howell, D.G., Coney, P.J., and Monger, J.W.H., 1983, Recognition, character, and analysis of tectonostratigraphic terranes in western North America, in Hashimoto, M., and Uyeda, S., eds., Accretion tectonics in the Circum-Pacific regions: Tokyo, Japan, Terra Scientific Publishing Company, p. 21–35.
- Jones, D.L., Irwin, W.P., and Ovenshine, A.T., 1972, Southeastern Alaska; A displaced continental fragment?: U.S. Geological Survey Professional Paper 800–B, p. B211–B217.
- Jones, D.L., Silberling, N.J., and Coney, P.J., 1986, Collision tectonics in the Cordillera of western North America; Examples from Alaska, *in* Coward, M.P., and Ries, A.C., eds., Collision tectonics: Geological Society of London Special Publication 19, p. 367–387.
- Jones, D.L., Silberling, N.J., and Coney, P.J., 1983, Tectono-stratigraphic map and interpretative bedrock geologic map of the Mount McKinley region, Alaska: U.S. Geological Survey Open-File Report 83–11, 2 sheets, scale 1:250,000.
- Jones, D.L., Silberling, N.J., and Hillhouse, J.W., 1977, Wrangellia—A displaced terrane in northwestern North America: Canadian Journal of Earth Sciences, v. 14, p. 2565–2577.
- Jones, D.L., Silberling, N.J., Berg, H.C., and Plafker, G., 1981, Map showing tectonostratigraphic terranes of Alaska, columnar sections, and summary description of terranes. U.S. Geological Survey Open-File Report 81–792, 2 sheets, scale 1:2,500,000, 20 p.
- Jones, D.L., Silberling, N.J., Chapman, R.M., and Coney, P., 1984, New ages of radiolarian chert from the Rampart district, east-central Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The U.S. Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 39–43.

- Jones, D.L., Silberling, N.J., Coney, P.J., and Plafker, G., 1984, Lithotectonic terrane map of Alaska (west of the 141st Meridian), Part A, *in* Silberling, N.J., and Jones, D.L., eds., Folio of the lithotectonic terrane maps of the North American Cordillera: U.S. Geological Survey Miscellaneous Field Studies Map MF–1874–A, 1 sheet, scale 1:2,500,000.
- Jones, D.L., Silberling, N.J., Coney, P.J., and Plafker, G., 1984, Lithotectonic terrane map of Alaska (west of the 141st meridian), *in* Silberling, N.J., and Jones, D.L., eds., Lithotectonic terrane maps of the North American Cordillera: U.S. Geological Survey Open File Report 81–791, 2 sheets, scale 1:2,500,000, 20 p.
- Jones, D.L., Silberling, N.J., Coney, P.J., and Plafker, G., 1984, Part A-Lithotectonic terrane map of Alaska (west of 141st Meridian), *in* Silberling, N.J., and Jones, D.L., eds., Lithotectonic terrane maps of the North American Cordillera: U.S. Geological Survey Open-File Report 84–523, scale 1:2,500,000, 12 p.
- Jones, D.L., Silberling, N.J., Coney, P., and Gilbert, W.G., 1983, Interpretive bedrock geologic map of the McKinley region and tectonostratigraphic map of the Mount McKinley region: U.S. Geological Survey Open-File Report 83–11, 2 sheets, scale 1:250,000.
- Jones, D.L., Silberling, N.J., Csejtey, B., Jr., Nelson, W.H., and Blome, C.D., 1980, Age and structural significance of ophiolite and adjoining rocks in the Upper Chulitna district, south-central Alaska: U.S. Geological Survey Professional Paper 1121–A, p. A I–A21.
- Jones, D.L., Silberling, N.J., Gilbert, W.G., and Coney, P.J., 1982, Character, distribution, and tectonic significance of accretionary terranes in the central Alaska Range: Journal of Geophysical Research, v. 87, no. B5, p. 3709–3717.
- Jones, D.M., and 6 others, 1981, Age, mineralogy, physical properties, and geochemistry of dredge samples from the Bering Sea continental margin: U.S. Geological Survey Open-File Report 81–1297, 68 p.
- Jones, H.P., and Speers, R.G., 1976, Permo–Triassic reservoirs of Prudhoe Bay field, North Slope, Alaska, *in* Braunstein, J., ed., North American oil and gas fields: American Association of Petroleum Geologists Memoir 24, p. 23–50.
- Jones, P.B., 1980, Evidence from Canada and Alaska on plate tectonic evolution of the Arctic Ocean basin: Nature, v. 285, p. 215–217.
- Jones, P.B., 1982, Mesozoic rifting in the western Arctic ocean basin and its relationship to Pacific seafloor spreading, *in* Embry, A.F., and Balkwill, H.R., eds., Arctic geology and geophysics; Proceedings of the Third International Symposium on Arctic Geology: Canadian Society of Petroleum Geologists Memoir 8, p. 83–99.
- Jones, P.B., 1982, Oil and gas beneath east-dipping underthrust faults in the Alberta foothills, *in* Powers, R.B., ed., Geologic studies of the Cordilleran thrust belt, v.1: Denver, Colo., Rocky Mountain Association of Geologists, p. 61–74.
- Julian, E.L., 1989, Structure and stratigraphy of Lower Paleozoic rocks, Doonerak window, central Brooks Range, Alaska: Houston, Tex., Rice University, Ph.D, dissertation, 1 sheet, scale 1:31,680, 127 p.
- Julian, F.E., Phelps, J.S., Seidensticker, C.M., Oldow, J.S., and Ave Lallemant, H.G., 1984, Structural history of the Doonerak window, central Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 291.
- Jurdy, D.M., 1981, True polar wander: Tectonophysics, v. 74, p. 1–16.
- Kanamori, Hiroo, 1972, Mechanism of tsunami earthquakes: Physics of the Earth and Planetary Interiors, v. 6, p. 346–359.
- Kanamori, Hiroo, 1977, The energy release in great earthquakes: Journal Geophysical Research, v.82, no.20, p. 2981–2987.
- Kanamori, Hiroo, and Katsuyuki, Abe, 1979, Reevaluation of the turn-of-the-century seismicity peak: Journal of Geophysical Research, v. 84, p. 6131–6139.
- Karl, H.A., Vallier, T.L., Masson, D., and Underwood, M.B., 1987, Long-range side-scan sonar mosaic of the western Aleutian arc and trench and the adjacent North Pacific seafloor [abs.]: EOS (Transactions of the American Geophysical Unions), v. 68, p 1485–1486.
- Karl, S.M., 1989, Paleoenvironmental implication of Alaskan siliceous deposits, *in* Hein, J.R., and Obradovic, J., eds., Siliceous deposits of the Tethys and Pacific regions: New York, Springer-Verlag, p. 169–200.
- Karl, S.M., 1991, Arc and extensional basin geochemical and tectonic affinities for the Maiyumerak basalts in the western Brooks Range, *in* Bradley, D.C., and Ford, A.B., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1990: U.S. Geological Survey Bulletin 1999, p. 141–155.
- Karl, S.M., Aleinikoff, J.N., Dickey, C.F., and Dillon, J.T., 1989, Age and chemical composition of the Proterozoic intrusive complex at Mount Angayukaqsraq, western Brooks Range, Alaska, *in* Dover, J.H., and Galloway, J.P., eds., Geological studies in Alaska by the U.S. Geological Survey, 1988: U.S. Geological Survey Bulletin 1903, p. 10–19.

- Karl, S.M., and Brew, D.A., 1984, Migmatites of the Coast plutonic metamorphic complex, southeastern Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 108–111.
- Karl, S.M, and Dickey, C F, 1989, Geology and Geochemistry indicates belts of both ocean floor and arc basalt and gabbro in the Maiyumerak Mountains, northwestern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 100.
- Karl, S., and Hoare, J.M., 1979, Results of a preliminary paleomagnetic study of volcanic rocks from Nuyakuk Lake, southwestern Alaska in Johnson, K.M., and Williams, J.R., eds., The U.S. Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B74–B78.
- Karl, S.M., and Long, C.L., 1987, Evidence for tectonic truncation of regional east-west trending structures in the central Baird Mountains quadrangle, western Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 392.
- Karl, S.M., and Long, C.L., 1990, Folded Brookian thrust faults: Implications of three geologic/geophysical transects in the western Brooks Range: Journal of Geophysical Research, v. 95, p. 8581–8592.
- Karl, S.M., Brew, D.A., and Wardlaw, B.R., 1990, Significance of Triassic marble from Nakwasina Sound, southeastern Alaska, *in* Dover, J.H., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1989: U.S. Geological Survey Bulletin 1946, p. 21–28.
- Karl, S.M., Decker, J.E., and Johnson, B.R., 1982, Discrimination of Wrangellia and the Chugach terrane in the Kelp Bay Group on Chichagof and Baranof islands, southeastern Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 124–128.
- Karl, S.M., Decker, J.E., and Jones, D.L., 1979, Early Cretaceous radiolarians from the McHugh complex, south-central Alaska: U.S. Geological Survey Circular 804-B, p. B88–B90.
- Karl, S.M., Dumoulin, J.A., Ellersieck, I., Harris, A.G., and Schmidt, J.M., 1989. Preliminary geologic map of the Baird Mountains quadrangle, Alaska: U.S. Geological Survey Open-File Report 89–551, scale 1:250,000, 65 p.
- Karlstrom, T.N.V., 1964, Quaternary geology of the Kenai Lowland and glacial history of the Cook Inlet region, Alaska: U.S. Geological Survey Professional Paper 443, 69 p.
- Karlstrom, T.N.V., and Ball G.E., eds., 1969, The Kodiak Island Refugium, its geology, flora, fauna, and history: The Ryerson Press, 362 p.
- Karlstrom, T.N.V., and others, 1964, Surficial geology of Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map 1–357, scale 1:1,584,000.
- Karte, J., 1982, Development and present status of German periglacial research in the polar and subpolar regions: Polar Geography and Geology, v. 6, no. 1, 24p.
- Kaufman, D.S., 1992, Aminostratigraphy of Pliocene-Pleistocene high-sea-level deposits, Nome Coastal plain and adjacent nearshore area, Alaska: Geological Society of America Bulletin, v. 104, p. 40–52.
- Kaufman, D.S., and Calkin, P.E., 1988, Morphometric analysis of Pleistocene glacial deposits in the Kigluaik Mountains, northwestern Alaska, U.S.A.: Arctic and Alpine Reserach, v. 20, p. 273–284.
- Kaufman, D.S., and Hopkins, D.M., 1986, Glacial history of Seward Peninsula, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Journal of the Alaska Geological Society, p. 51–77.
- Kaufman, D.S., Hopkins, D.M., and Calkin, P.E., 1988, Glacial geologic history of the Salmon Lake area, Seward Peninsula, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 91–94.
- Kaufman, D.S., Hopkins, D.M., Brigham-Grette, J., and Miller, G.H., 1989, Amino acid geochronology of marine and glacial events at Nome, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. A210.
- Kaufman, D.S., and 6 others, 1989, Surficial geologic map of the Kigluaik Mountains area, Seward Peninsula, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–2074, scale 1:63,360.
- Kaufman, D.S., Walter, R.C., Brigham-Grette, J., and Hopkins, D.M., 1991: Middle Pleistocene age of the Nome River glaciation, northwestern Alaska: Quaternary Research, v. 36, p. 277–293.
- Kaufman, D.S., 1985, Windy Creek and Crater Creek faults, Seward Peninsula: *in* Bartsch-Winkler, Susan and Reed, K.M., eds., The U.S. Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p.22–24.

- Kaufman, D.S., and Hopkins, D.M., 1985, Late Cenozoic radiometric dates, Seward and Baldwin Peninsulas, adjacent continental shelf, Alaska: U.S. Geological Survey Open-File Report 85–374, 1 sheet, scale 1:500,000, 27 p.
- Kawasaki, K., and Osterkamp, T.E., 1989, Mapping shallow permafrost by electromagnetic induction; Practical considerations: Cold Regions Science and Technology, v. 15, no. 3, p. 279–288.
- Kay, R.W., 1977, Geochemical constraints on the origin of Aleuhan magmas, *in* Talwani, M., and Pittman, W., eds., Island arcs, deep sea trenches, and back-arc basins: American Geophysical Union Maunce Ewing Series 1, p. 229–242.
- Kay, R.W., 1978, Aleutian magnesian andesites; Melts from subducted Pacific Ocean crust: Journal of Volcanology and Geothermal Research, v. 4, p. 117–132.
- Kay, R.W., 1980, Volcanic arc magmas; Implications of a melting-mixing model for element recycling in the crust-upper mantle system: Journal of Geology, v. 88, p. 497–522.
- Kay, R.W., 1984, Elemental abundances relevant to identification of magma sources: Philosophical Transactions of the Royal Society of London, Series A, v.310, p. 535–547.
- Kay, R.W., 1986, Petrology and geochemistry of the lower continental crust; An overview: Geological Society of London Special Publication 24, p. 147–159.
- Kay, R.W., 1988, Crustal recycling and the Aleutian arc: Geochimica et Cosmochimica Acta, v. 52, p. 1351–1359.
- Kay, R.W., 1989, Recycled continental crustal components in Aleutian Arc magmas, *in* Hart, S. R. and Galen, L., eds., Crust/mantle recycling at subduction zones: Dordrecht, Kluwer Academic Publishers, NATO Advanced Study Institutes Series C, Mathematical and Physical Sciences, v. 258, p. 145–162.
- Kay, R.W., and Kay, S.M., 1985, Eclogite model and primary magmas of the Aleutian arc: EOS (Transactions of the American Geophysical Union), v. 66, p. 422.
- Kay, R.W., and Kay, S.M., 1989, Recycled continental crustal components in Aleutian arc magmas, implications for crustal growth and mantle heterogeneity, *in* Hart, S. R., and Gulen, L., eds., Crust/mantle recycling at convergence zones: Dordrecht, Kluwer Academic, p. 145–161.
- Kay, R.W., and Kay, S.M., 1991, Creation and destruction of lower continental crust: Geologische Rundschau, v. 80, p. 259–278.
- Kay, R.W., Rubenstone, J.L., and Kay, S.M., 1986, Aleutian terranes from Nd isotopes: Nature, v. 322, p. 605-609.
- Kay, R.W., Sun, S.S., and Lee-Hu, C.N., 1978, Pb and Sr isotopes in volcanic rocks from the Aleutian Islands and Pholiof Islands, Alaska, Geochimica et Cosmochimica Acta, v. 42, p. 263–274.
- Kay, S.M., 1983, Metamorphism in the Aleutian Arc; The Finger Bay pluton, Adak, Alaska: Canadian Mineralogist, v. 21, p. 665–681.
- Kay, S.M., and Kay, R.W., 1985, Aleutian tholeitic and calc-alkaline magma series; 1, the mafic phenocrysts: Contributions to Mineralogy and Petrology, v. 90, p. 461–464.
- Kay, S.M., and Kay, R.W., 1985, Aleutian tholeitic and calc-alkaline magma series; I, The mafic phenocrysts: Contributions to Mineralogy and Petrology, v.90, p.276–290.
- Kay, S.M., and Kay, R.W., 1985, Role of crystal cumulates and the oceanic crust in the formation of the lower crust of the Aleutian arc: Geology, v. 13, p. 461–464.
- Kay, S.M., Kay, R.W., and Citron, G.P., 1982, Tectonic controls on tholeitic and calc-alkaline magmatism in the Aleutian arc: Journal of Geophysical Research, v. 87, no. B5, p. 4051–4072.
- Kay, S.M., Kay, R.W., Breuckner, H.K., and Rubenstone, J.L., 1983, Tholeitic Aleutian Arc Plutonism; The Finger Bay pluton, Adak, Alaska: Contributions to Mineralogy and Petrology, v. 82, p. 99–116.
- Kay, S.M., Kay, R.W., Citron, G.P., and Perfit, M.R., 1990, Calc-alkaline plutonism in the intra-oceanic Aleutian arc, Alaska, *in* Kay, S.M., and Rapela, C.W., eds., Plutonism from Antarctica to Alaska: Boulder, Colo., Geological Society of America Special Paper 241, p. 233–255.
- Kay, S.M., Kay, R.W., Romick, J., and Yogodzinski, G., 1986, Spatial variations in trace element ratios in the Aleutian arc [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 651.
- Kay, S.M., Maksaev, V., Mpodozis, C., Moscoso R., and Nasi, C., 1987, Probing the evolving Andean Lithosphere; Middle to late Tertiary magmatic rocks in Chile over the modern zone of subhorizontal subduction (29-31.5°S): Journal of Geophysical Research, v. 92, p. 6173–6189.

- Kay, S.M., Romick, J., and Kay, R.W., 1986, Mineralogy of volcanic and plutonic rocks as a guide to processes in the formation of the Aleutian crust, *in* Abstracts, 13th Meeting, International Mineralogical Association, Stanford, Calif.: International Mineralogical Association, p. 139.
- Keith, T.E.C., and Foster, H.L., 1973, Basic data on the ultramafic rocks of the Eagle quadrangle, east-central Alaska: U.S. Geological Survey Open-File Report 73–140, 4 sheets.
- Keith, T.E.C., and Foster, H.L., 1979, Big Windy Creek hot springs, Circle A-l quadrangle, Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. 55–57.
- Keith, T.E.C., Foster, H.L., Foster, R.L., Post, E.V., and Lehmbeck, W.L., 1981, Geology of an alpine-type peridotite in the Mount Sorenson area, east-central Alaska, *in* Shorter contributions to general geology: U.S. Geological Survey Professional Paper 1170–A, p. Al–A9.
- Keith, T.E.C., Presser, T.S., and Foster, H.L., 1981, New chemical and isotope data for the hot springs along Big Windy Creek, Circle A-l quadrangle, Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823-B, p. B25–B28.
- Kelemen, P.B., 1986, Assimilation of ultramafic rocks in subduction-related magmatic arcs: Journal of Geology, v. 94, p. 829–843.
- Kelemen, P.B., 1990, Reaction between ultramafic rock and fractionating basaltic magma; 1, Phase relations, the origin of calc-alkaline magma series, and the formation of discordant dunite: Journal of Petrology, v. 31, p. 51–98.
- Kelemen, P.B., and Ghiorso, M.S., 1986, Assimilation of peridotite in zoned calc-alkaline plutonic complexes; Evidence from the Big Jim complex, Washington Cascades: Contributions to Mineralogy and Petrology, v. 94, p. 12–28.
- Kelemen, P.B., and Sonnfeld, M.D., 1983, Stratigraphy, structure, petrology and local tectonics, central Ladakh, NW Himalaya: Schweizer Mineralogische Petrographische Mitteilungen, v. 63, p. 267–287.
- Keller, A.S., and Reiser, H.N., 1959, Geology of the Mount Katmai area, Alaska: U.S. Geological Survey Bulletin 1058–G, p. 261–298.
- Keller, A.S., Morris, R.E., and Detterman, R.L., 1961, Geology of the Shaviovik and Sagavanirktok rivers region, Alaska: U.S. Geological Survey Professional Paper 303–D, p. 169–219.
- Keller, Fred, Jr., Meuschke, J.L., and Aldredge, L.R., 1954, Aeromagnetic surveys in the Aleutian, Marshall, and Bermuda Islands: American Geophysical Union, Transactions, v. 35, no. 4, p. 558–572.
- Keller, G., von Huene, R., McDougall, K.R., and Bruns, T.R., 1984, Paleoclimatic evidence for Cenozoic migration of Alaskan terranes: Tectonics, v. 3, p. 473–495.
- Kelley, J.S., 1980, Environments of deposition and petrography of Lower Jurassic volcaniclastic rocks, southwestern Kenai Peninsula, Alaska: Davis, University of California, Ph.D. dissertation, 304 p.
- Kelley, J.S., 1984, Geologic map and sections of the southwestern Kenai Peninsula west of the Port Graham fault, Alaska: U.S. Geological Survey Open-File Report 84–0152, 1 sheet, scale 1:63,360.
- Kelley, J.S., 1985, Geologic setting of the Kenai Peninsula and Cook Inlet Tertiary basin, south-central Alaska, *in* Sisson, A., ed., Guide to the geology of the Kenai Peninsula, Alaska: Anchorage, Alaska Geological Society, p. 3-19.
- Kelley, J.S., 1985, Geology of the southwestern tip of the Kenai Peninsula, *in* Sisson, A., ed., Guide to the geology of the Kenai Peninsula: Anchorage, Alaska Geological Society, p. 50–68.
- Kelley, J.S., 1988, Preliminary geologic map of the Chandler Lake quadrangle, Alaska: U.S. Geological Survey Open-File Report 88–42, 2 sheets, scale 1:125,000.
- Kelley, J.S., 1990, Generalized geologic map of the Chandler Lake quadrangle: U.S. Geological Survey Miscellaneous Field Studies Map MF–2144–A, scale 1:250,000.
- Kelley, J.S., and Bohn, D., 1988, Decollements in the Endicott Mountains allochthon, north-central Brooks Range, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 44–47.
- Kelley, J.S., and Foland, R.L., 1987, Structural style and framework geqlogy of the coastal plain and adjacent Brooks Range, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 255–270.
- Kelley, J.S., Brosgé, W.P., and Reynolds, M.W., 1985, Fold-nappes and polyphase thrusting in the north-central Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 65, p. 667.

- Kelly, T.E., 1963, Geology and hydrocarbons in Cook Inlet basin, Alaska, *in* Childs, O.E., and Beebe, B.W., eds., Backbone of the Americas: American Association of Petroleum Geologists Memoir 2, p. 278–296.
- Kelly, T.E., 1968, Gas accumulations in nonmarine strata, Cook Inlet basin, Alaska, *in* Beebe, B.W., and Curtis, B.F., eds., Natural gases of North America: American Association of Petroleum Geologists Memoir 9, v. 1, p. 49–64.
- Kenah, C., 1979, Mechanism and physical conditions of emplacement of the Quottoon Pluton, British Columbia: Princeton, New Jersey, Princeton University, Ph.D. dissertation, 184 p.
- Kenah, C., and Hollister, L.S., 1983, Anatexis in the Central Gneiss Complex, British Columbia, *in* Atherton, M.P. and Gribble, C.D., eds., Migmatites, melting, and metamorphism: Nantwich, Cheshire, Shiva Publishing Ltd., p. 142–162.
- Kennedy, G.C., 1953, Geology and mineral deposits of Jumbo basin, southeastern Alaska: U.S. Geological Survey Professional Paper 251, 46 p.
- Kennedy, G.C., and Waldron, H.H., 1955, Geology of Paviof Volcano and vicinity, Alaska: U.S. Geological Survey Bulletin 1028–A, p. 1–19.
- Kennedy, G.C., and Walton, M.S., Jr., 1946, Geology and associated mineral deposits of some ultrabasic rock bodies in southeastern Alaska: U.S. Geological Survey Bulletin 947–D, p. 65–84.
- Kent, D.V., 1982, Paleomagnetic evidence for post-Devonian displacement of the Avalon platform (Newfoundland): Journal of Geophysical Research, v. 87, p. 8709–8716.
- Kent, D.V., and Opdyke, N.D., 1985, Multicomponent magnetizations from the Mississippian Mauch Chunk Formation of the central Appalachians and their tectonic implications: Journal of Geophysical Research, v. 90, p.5371–5383.
- Kerin, L.J., 1976, The reconnaissance petrology of the Mount Fairplay igneous complex: Fairbanks, University of Alaska, Master's thesis, 95 p.
- Keroher, G.C., and others, 1966, Lexicon of geologic names of the United States for 1936-1960: U.S. Geological Survey Bulletin 1200, 4431 p.
- Khrenov, P.M., and Bukharov, A.A., 1973, Marginal volcano-plutonic belts in the North Asian craton: International Geology Review, v. 15, p. 688–697.
- Kienle, J., and Swanson, S.E., 1983, Volcanism in the eastern Aleutian arc; Late Quaternary and Holocene centers, tectonic setting and petrology: Journal of Volcanology and Geothermal Research, v. 17, p. 393–432.
- Kienle, J., and Turner, D.L., 1976, The Shumagin-Kodiak batholith—A Paleocene magmatic arc?, *in* Short notes on Alaskan geology—1976: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 51, P. 9–11.
- Kienle, J., Kyle, P.R., Self, S., Motyka, R.J., and Lorenz, V., 1980, Ukinrek maars, Alaska; 1, April 1977 eruption sequence, petrology, and tectonic setting: Journal of Volcanology and Geothermal Research, v. 7, p. 11–37.
- Kienle, J., Swanson, S.E., and Pulpan, H., 1983, Magmatism and subduction in the eastern Aleutian arc, *in* Shimozuru, D., and Yokoyama, I., eds., Arc volcanism; Physics and tectonics: Tokyo, Terra Scientific Publishing Company, p. 191–224.
- Kilinc, A., Carmichael, I.S.E., Rivers, M.L., and Sack, R.O., 1983, Ferric-ferrous ratio of natural silicate liquids equilibrated in air: Contributions to Mineralogy and Petrology, v. 83, p. 136–140.
- Kimball, A.L., Still, J.C., and Rataj, J.L., 1984, Mineral deposits and occurrences in the Tracy Arm-Fords Terror wilderness study area and vicinity, Alaska: U.S. Geological Survey Bulletin 1525, p. 105–210.
- Kindle, E.D., 1953, Dezadeash map area, Yukon Territory: Canada Geological Survey Memoir 268, 68 p.
- Kindle, E.M., 1908, Geologic reconnaissance of the Porcupine Valley, Alaska: Geological Society of America Bulletin, v. 19, p. 315–338.
- King, B.C., 1970, Volcanicity and rift tectonics in East Africa, *in* Clifford, T.N., and Gass, I.G., eds., African magmatism and tectonics: New York, Hofner, p. 263–283.
- King, P.B., 1969, The tectonics of North America—A discussion to accompany the tectonic map of North America, scale 1:5,000,000: U.S. Geological Survey Professional Paper 628, 94 p.
- King, P.B., and Edmonston, G.J., 1972, Generalized tectonic map of North America: U.S. Geological Survey Miscellaneous Geological Investigations Map 1–688, scale 1:5,000,000.
- King, P.B., compiler, 1969, Tectonic map of North America: U.S. Geological Survey, scale 1:5,000,000.
- Kirschner, C.E., 1988, Map showing sedimentary basins of onshore and continental shelf areas, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1873, scale 1:2,500,000.

- Kirschner, C.E., 1994, Interior basins of Alaska, *in* Plafker, G., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G–1, p. 469–493.
- Kirschner, C.E., and Lyon, C.A., 1973, Stratigraphic and tectonic development of Cook Inlet Petroleum Province, *in* Pitcher, M.G., ed., Arctic geology: American Association of Petroleum Geologists Memoir 19, p. 396–407.
- Kirschner, C.E., and Rycerski, B.A., 1988, Petroleum potential of representative stratigraphic and structural elements in the National Petroleum Reserve in Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p.191–208.
- Kirschner, CE, Gryc, G., and Molenaar, C., 1983, Regional seismic lines in the National Petroleum Reserve in Alaska, *in* Bally, A.W., ed., Seismic expression of structural styles, v. 1: American Association of Petroleum Geologists Studies in Geology Series 15, p. 1.2.5-1-1.2.5-14.
- Kirschner, C.E., Fisher, M.A., Bruns, T.R., and Stanley, R.G., 1985, Interior provinces in Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, no. 4, p. 667.
- Kirschvink, J.L., 1980, The least-squares line and plane and the analysis of palaeomagnetic data: Geophysical Journal of the Royal Astronomical Society, v. 62, p. 699–718.
- Kistler, R. W., and Peterman, Z. E., 1973, Variations in Sr, Rb, K, Na, and initial ⁸⁷Sr/⁸⁶Sr in Mesozoic granitic rocks and intruded wall rocks in central California: Geological Society of America Bulletin, v. 84, p. 3489 –3512.
- Kistler, R.W., Ghent, E.D., and O'Neil, J.R., 1981, Petrogenesis of garnet two-mica granites in the Ruby Mountains, Nevada: Journal of Geophysical Research, v. 86, p. 10,591–10,606.
- Klein, R.M., Lyle, W.M., Dobey, P.L., and O'Conner, K.M., 1974, Energy and mineral resources of Alaska and the impact of federal land policies on their availability: Fairbanks, State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys Open-File Report 50.
- Kleist, J.R., 1971, The Denali Fault in the Canwell Glacier area, east-central Alaska Range: Madison, Wisconsin, University of Wisconsin, Master's thesis, 1 sheet, scale 1:15,840, 111 p.
- Kline, J.T., and, Bundtzen, T.K., 1986, Two glacial records from west-central Alaska, *in* Hamilton, T. D., Reed, K. M., and Thorson, R. M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 123–150.
- Kline, J.T., Bundtzen, T.K., and Smith, T.E., 1990, Preliminary bedrock geologic map of the Talkeetna Mountains D-2 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public-Data File 90–24, 1 sheet, scale 1:63,3160, 13 p.
- Kline, J.T., Gilbert, W.G., and Bundtzen, T.K., 1986, Preliminary geologic map of the McGrath C-l quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 86–25, 1 sheet, scale 1:63,360.
- Knock, D.G., 1987, Depositional setting and provenance of upper Neocomian Kemik Sandstone, Arctic National Wildlife Refuge (ANWR), northeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 395.
- Knopf, A., 1908, Geology of the Seward Peninsula tin deposits, Alaska: U.S. Geological Survey Bulletin 358, 71 p.
- Knopf, A., 1911, Geology of the Berners Bay region, Alaska: U.S. Geological Survey Bulletin 446, 58 p.
- Koch, R.D., and Elliott, R.L., 1981, Map showing distribution and abundance of gold and silver in geochemical samples from the Bradfield Canal quadrangle, southeastern Alaska: U.S. Geological Survey Open-File Report 81 728C, 2 sheets, scale 1:250,000.
- Koch, R.D., and Elliott, R.L., 1984, Late Oligocene gabbro near Ketchikan, southeastern Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 126–128.
- Koch, R.D., Smith, J.G., and Elliot, R.L., 1977, Miocene or younger strike-slip(?) fault at Canoe Passage, southeastern Alaska: *in* Blean, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1976: U.S. Geological Survey Circular 751–B, p. B76.
- Kosco, D.G., 1981, The Mount Edgecumbe volcanic field, Alaska; An example of tholeitic and calc-alkaline volcanism: Journal of Geology, v. 89, no 4, p. 459–477.
- Kosygin, U.A., and Popeko, V.A., 1987, Map of magmatic formations of the Far Eastern USSR: Institute of Tectonics and Geophysics, Far East Branch of the USSR Academy of Sciences, scale 1:2,000,000 (in Russian).
- Kreig, R.A., and Reger, R.D., 1982, Air-photo analysis and summary of landform soil properties along the route of the Trans-Alaska Pipeline System: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 66, 149 p.

- Krimmel, R.M., and Meier, M.F., 1989, Glaciers and glaciology of Alaska, *in* 28th International Geological Congress Field Trip Guidebook T301: American Geophysical Union, 61 p.
- Krissek, L.A., Rea, D.K., Basov, I., and Leg 145 Shipboard Scientific Party, 1993, Plio-Pleistocene paleoclimatic and paleoceanographic evolution of the North Pacific—Preliminary results of ODP Leg 145, *in* 23rd Annual Arctic Workshop, Columbus, Ohio State University, 1993, Abstracts: Columbus, Ohio State University Byrd Polar Research Center, Miscellaneous Series M–322, p. 49.
- Kudo, A.M., 1983, Origin of Calc-alkalic andesites, Nasu zone, northeastern Japan; Kuno revisited: Geochemical Journal, v. 17, p. 51–62.
- Kulm, L.D., von Huene, R., and others, 1973, Initial reports of the Deep Sea Drilling Project: Washington, D.C., U.S. Government Printing Office, v.18, 1077 p.
- Kunze, J.F., and Lofgren, B.E., 1983, Pilgrim Springs, Alaska, geothermal; resource exploration, drilling, and testing: Geothermal Resources Council S Transactions, v. 7, p. 301–304.
- Kushiro, I., 1975, On the nature of silicate melt and its significance in magma genesis; Regularities in the shift of the liquidus boundaries involving olivine, pyroxene, and silica minerals: American Journal of Science, v. 275, p. 411–431.
- Kushiro, I., 1986, Viscosity of partial melts in the upper mantle: Journal of Geophysical Research, v. 91, p. 9343–9350.
- Kushiro, I., Yoder, H.S., and Mysen, B.O., 1976, Viscosities of basalt and andesite melts at high pressures: Journal of Geophysical Research, v. 81, p. 6351–6356.
- Kyser, T.K., O'Neil, J.R., and Carmichael, I.S.E., 1981, Oxygen isotope thermometry of basic lavas and mantle nodules: Contributions to Mineralogy and Petrology, v. 77, p. 11–23
- Labson, V.F., and Stanley, W.D., 1989, Electrical resistivity structure beneath southern Alaska, *in* Nokleberg, W.J., and Fisher, M.A., eds., Alaskan Geological and Geophysical Transect, Field Trip Guidebook T104: Washington, D.C., American Geophysical Union, p. 75–78.
- Labson, V.F., Fisher, M.A., and Nokleberg, W.J., 1988, An integrated study of the Denali fault from magnetotelluric sounding, seismic reflection, and geologic mapping: Eos (Transactions, American Geophysical Union), v. 69, p. 1457.
- Lachenbruch, A.H., 1957, Thermal effects of the ocean on permafrost: Geological Society of America Bulletin, v. 68, no. 11, p. 1515–1530.
- Lachenbruch, A.H., 1957, Three-dimensional heat conduction in permafrost beneath heated buildings: U.S. Geological Survey Bulletin 1052–B, p. 51–69.
- Lachenbruch, A.H., 1970, Some estimates of the thermal effects of a heated pipeline in permafrost: U.S. Geological Survey Circular 632, 23 p.
- Lachenbruch, A.H., and Marshall, B.V., 1986, Changing climate; Geothermal evidence from permafrost in the Alaskan Arctic: Science, v. 234, no. 4777, p. 689–696.
- Lachenbruch, A.H., and 8 others, 1987, Temperature and depth of permafrost on the Alaskan North Slope, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersheld, Calif., Pacific Section of Society of Economic Paleontologists and Mineralogists and the Alaska Geological Society, v. 2, p. 545–558.
- Lachenbruch, A.H., and 8 others, 1989, Temperature and depth of permafrost on the Arctic Slope of Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 645–656.
- Lachenbruch, A.H., Greene, G.W., and Marshall, B.V., 1966, Permafrost and the geothermal regimes, *in* Wilimovsky, N.J., and Wolfe, J.N., eds., Environment of the Cape Thompson region, Alaska: U.S. Atomic Energy Commission Report PNE–481, p. 149–163.
- Lachenbruch, A.H., Sass, J.H., Lawver, L.A., Brewer, M.C., and Moses, T.H., Jr., 1982, Depth and temperature of permafrost on the Alaskan Arctic Slope; Preliminary results: U.S. Geological Survey Open-File Report 82–1039, 20 p.
- Lagoe, N.B., Eyles, C.H., and Eyles, Nicholas, 1989, Paleoenvironmental significance of foraminiferal biofacies in the glaciomarine Yakataga Formation, Middleton Island, Gulf of Alaska: Journal of Foraminiferal Research, v.19, p. 194–209.
- Lahr, J.C., and Plafker, G., 1980, Holocene Pacific North American plate interaction in southern Alaska; Implications for the Yakataga seismic gap: Geology, v. 8, p. 483–486.
- Lahr, J.C., Page, R.A., Stephens, C.D., and Christensen, D.H., 1988, Unusual earthquakes in the Gulf of Alaska and fragmentation of the Pacific plate: Geophysical Research Letters, v. 15, p. 1483–1486.

- Lahr, J.C., Page, R.A., Stephens, C.D., Fogleman, K.A., 1986, Sutton, Alaska, earthquake of 1984: Evidence for activity on the Talkeetna segment of the Castle Mountain fault system: Bulletin Seismological Society of America, v. 76, p. 967-983.
- Lahr, J.C., Plafker, George, Stephens, C.D., Fogleman, K.A., and Blackford, M.E., 1979, Interim report on the St. Elias Earthquake of 28 February 1979: U.S. Geological Survey Open-File Report 79–670, 35 p.
- Laird, J., 1982, Amphiboles in metamorphosed basaltic rocks; Greenschist to amphibolite facies, *in* Veblen, D.R., and Ribbe, P.H., eds., Amphiboles; Petrology and experimental phase relations: Mineralogical Society of America Reviews in Mineralogy, v. 9B, p. 113–138.
- Laird, J., and Foster, H.L., 1984, Description and interpretation of a mylonitic foliated quartzite unit and feldspathic quartz wacke (grit) unit in the Circle quadrangle, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 29–33.
- Laird, J., Biggs, D.L., and Foster, H.L., 1984, A terrane boundary of the southeastern Circle quadrangle, Alaska?; Evidence from petrologic data: EOS (Transactions of the American Geophysical Union), v.65, no. 16, p.291.
- Laird, J., Foster, H.L., and Weber, F., 1984, Amphibole eclogite in the Circle quadrangle, Yukon-Tanana Upland, Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 57 –60.
- Lambert, M.B., 1974, The Bennett Lake cauldron subsidence complex, British Columbia and Yukon Territory: Geological Survey of Canada Bulletin 227, 213 p., scale 1:25,000.
- Lancelot, J.R., and de Saint-Andre, B., 1982, U-Pb systematics and genesis of U deposits, Bokan Mountain (Alaska) and Lodeve (France) [abs.]: 5th International Conference on Geochronology, Cosmochronology, and Isotope Geology, Nikko National Park, Japan, June 27-July 2, Abstracts, p. 206–207.
- Lane, H.R., and Ormiston, A.R., 1976, The age of the Woodchopper Limestone (Lower Devonian), Alaska: Geologica et Palaeontologica, v.10, p.101 108.
- Lane, L.S., 1988, The Rapid fault array; A foldbelt in Arctic Yukon, *in* Current Research, Part D: Geological Survey of Canada Paper 88–1D, p. 95–98.
- Lane, L.S., 1991, The pre-Mississippian "Neruokpuk Formation," north-easten. Alaska and northwestern Yukon: Review and new regional correlation: Canadian Journal of Earth Sciences, v. 28, p. 1521–1533.
- Lane, L.S., and Cecile, M.P., 1989, Stratigraphy and structure of the Neruokpuk Formation, northern Yukon, *in* Current Research, Part G: Geological Survey of Canada Paper 89–19, p. 57–62.
- Lange, I.M., and Nokleberg, W.J., 1984, Massive sulfide deposits of the Jarvis Creek Terrane, Mount Hayes quadrangle, eastern Alaska Range [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 294.
- Lange, I.M., Nokleberg, W.J., Plahuta, J.T., Krouse, H.R., and Doe, B.R., 1985, Geologic setting, petrology, and geochemistry of stratiform zinc-leadbarium deposits, Red Dog Creek and Drenchwater Creek areas, northwestern Brooks Range, Alaska: Economic Geology, v. 80, p. 1896–1926.
- Lange, I.M., Nokleberg, W.J. Plahuta, J.T., Krouse, H.R, Doe, B.R., and Jansons, Uldis, 1981, Isotopic geochemistry of stratiform zinc-lead-barium deposits, Red Dog Creek and Drenchwater Creek areas, northwestern Brooks Range, Alaska, *in* Silberman, M.L., Field, C.W., and Berry, A.L., eds., Geological Society of America, Cordilleran Section meeting at Corvalis, Oregon, March 20-21, 1980: U.S. Geological Survey Open-File Report 81–355, p. 1–16.
- Lankford, S.M., and Hill, J.M., 1979, Stratigraphy and depositional environment of the Dutch Harbor Member of the Unalaska Formation, Unalaska Island, Alaska: U.S. Geological Survey Bulletin 1457-B, 14 p.
- Lanphere, M.A., 1968, Sr-Rb-K and Sr isotopic relationships in ultramafic rocks, southeastern Alaska: Earth and Planetary Science Letters, v. 4, p. 185–190.
- Lanphere, M.A., 1966, Potassium-argon ages of Tertiary plutons in the Prince William Sound region, Alaska, *in* Geological Survey research 1966: U.S. Geological Survey Professional Paper 550–D, p. D195–D198.
- Lanphere, M.A., 1978, Displacement history of the Denali fault system, Alaska and Cananda: Canadian Journal Earth Science, v. 15, no. 5, p. 817–822.
- Lanphere, M.A., and Dalrymple, G.B., 1980, Age and strontium isotopic composition of the Honolulu Volcanic Series, Oahu, Hawaii: American Journal of Science, v. 280–A, p. 736–751.
- Lanphere, M.A., and Eberlein, G.D., 1966, Potassium-argon ages of magnetitebearing ultramafic complexes in southeastern Alaska, *in* Abstracts for 1965: Geological Society of America Special Paper 87, p. 94.

- Lanphere, M.A., and Reed, B.L., 1973, Timing of Mesozoic and Cenozoic plutonic events in Circum-Pacific North America: Geological Society of America Bulletin, v. 84, p. 3773 –3782.
- Lanphere, M.A., and Reed, B.L., 1985, The McKinley sequence of granitic rocks; A key element in the accretionary history of southern Alaska: Journal of Geophysical Research, v. 90, no. B13, p. 11413–11430.
- Lanphere, M.A., and Jones, D.L., 1978, Cretaceous time scale from North America, *in* Cohee, G.V., and others, eds., Contributions to the geologic time scale: American Association of Petroleum Geologists, Studies in Geology, no. 6, p. 259–267.
- Lanphere, M.A., and Reed, B.L., 1985, The McKinley sequence of granitic rocks: A key element in the accretionary history of southern Alaska: Journal of Geophysical Research, v. 90, no. B13, p. 11,413–11,430.
- Lanphere, M.A., and Tailleur, I.L., 1983, K-Ar ages of bentonites in the Seabee Formation, Northern Alaska: A Late Cretaceous (Turonian) time-scale point: Cretaceous Research, v. 4, p. 361–370.
- Lanphere, M.A., Brew, D.A., Eberlein, G.D., Loney, R.A., and MacKevett, E.M., Jr., 1964, ⁴⁰Ar-⁴⁰K ages of Paleozoic intrusive rocks in southeastern Alaska: American Geophysical Union Transaction, v. 45, no. 1, p. 116–117.
- Lanphere, M.A., Dalrymple, G.B., and Clague, D.A., 1980, Rb-Sr systematics of basalts from the Hawaiian-Emperor volcanic chain, *in* Shambach, J., and others, eds., Initial reports of the Deep Sea Drilling Project: Washington, D.C., U.S. Government Printing Office, v. 55, p. 695–706.
- Lanphere, M.A., Churkin, Michael, Jr., and Eberlein, G.D., 1977, Radiometric age of the Monograptus cyphus graptolite zone in southeastern Alaska–an estimate of the age of the Ordovician-Silurian boundary: Geology Magazine, v. 114, no. 1, p. 15–24.
- Lanphere, M.A., Churkin, Michael, Jr., and Eberlein, G.D., 1977, A new radiometric date for the Ordovician-Silurian boundary, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B4.
- Lanphere, M.A., Loney, R.A., and Brew, D.A., 1965, Potassium-argon ages of some plutonic rocks, Tenakee Inlet, Chichagof Island, southeastern Alaska, *in* Geological Survey research 1965: U.S. Geological Survey Professional Paper 525–B, p. B108–B111.
- Lanphere, M.A., MacKevett, E.M., Jr., and Stern, T.W., 1964, Potassium argon and lead-alpha ages of plutonic rocks, Bokan Mountain area, Alaska: Science, v. 145, no. 3633, p. 705–707.
- Larsen, E.S., Jr., Gottfried, David, Jaffe, H.W., and Waring, C., 1958, Lead-alpha ages of the Mesozoic batholiths of western North America: U.S. Geological Bulletin 1070-B. p. 1–33.
- Lathram, E.H., 1964, Apparent right-lateral separation on Chatham Strait fault, southeastern Alaska: Geological Society of America Bulletin, v. 75, p. 249–252.
- Lathram, E.H., 1965, Preliminary geologic map of northern Alaska: U.S. Geological Survey Open-File Report [65–96], 2 sheets, scale 1:1,000,000.
- Lathram, E.H., Loney, R.A., Condon, W.H., and Berg, H.C., 1959, Progress map of the geology of the Juneau quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–303, scale I:250,000.
- Lathram, E.H., Pomeroy, J.S., Berg, H.C., and Loney, R.A., 1965, Reconnaissance geology of Admiralty Island, Alaska: U.S. Geological Survey Bulletin 1181–R., p. Rl–R48, scale 1: 250,000.
- Lattanzi, R.D., 1981, Planktonic foraminiferal biostratigraphy of Exxon Company, U.S.A., wells drilled in the Gulf of Alaska during 1977 and 1978: Anchorage, Alaska Geological Society Journal, v. 1, p. 48–59.
- Laudon, L.R., Hartwig, A.E., Morgridge, D.L., and Omernik, J., 1966, Middle and Late Paleozoic stratigraphy, Alaska-Yukon border area between Yukon and Porcupine Rivers: American Association of Petroleum Geologists Bulletin, v. 50, no. 9, p. 1868–1889.
- Lawson, D.E., 1983, Erosion of perennially frozen streambanks: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Report 83–29, 22 p.
- Lawson, D.E., 1986, Response of permafrost terrain to disturbance; A synthesis of observations from northern Alaska, U.S.A.: Arctic Alpine Research, v. 18, p. 1–17.
- Lawson, D.E., and Brown, J., 1978, Human-induced thermokarst at old drill sites in northern Alaska: The Northern Engineer, v. 10, no. 3, p. 16–23.
- Lawson, D.E., and 7 others, 1978, Tundra disturbance and recovery following the 1949 exploratory drilling, Fish Creek, northern Alaska: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Report 78-28, 91 p.

- Lawton, T.F., Geehan, G.W., and Voorhees, B.J., 1987, Lithofacies and depositional environments of the Ivishak Formation, Prudhoe Bay field, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 61–76.
- Lawver, L.A., and Scotese, C.R., 1990, A review of tectonic models for the evolution of the Canada basin, *in* Grantz, A., Johnson, L., and Sweeney, J.F., eds., The Arctic Ocean region: Boulder, Colo., Geological Society of America, The Geology of North America, v. L, p. 593–618.
- Lea, P.D., 1989, Last-glacial eolian deposits in the Nushagak lowland, southwestern Alaska; Distribution, lithostratigraphy, and radiocarbon chronology, *in* Lea, P.D., Quaternary environments and depositional systems of the Nushagak lowland, southwestern Alaska: Boulder, University of Colo., Ph.D. dissertation, p. 217–294.
- Lea, P.D., 1990, Pleistocene glacial tectonism and sedimentation on a macrotidal piedmont coast; Ekuk bluffs, southwestern Alaska: Geological Society of America Bulletin, v. 102, p. 1230–1245.
- Lea, P.D., 1990, Pleistocene periglacial eolian deposits in southwestern Alaska; Sedimentary facies and depositional processes: Journal of Sedimentary Petrology, v. 60, p. 582–591.
- Lea, P.D., and Waythomas, C.F., 1990, Late Pleistocene eolian sand sheets in Alaska: Quaternary Research, v. 34, p. 269–281.
- Leake, B.E., 1983, Ultrametamorphism, migmatites, and granitoid formation, *in* Atherton, M.P., and Gribble, C.D., eds., Migmatites, melting, and metamorphism: Nantwich, Cheshire, Shiva Publishing, Ltd., p. 2 9.
- LeCouteur, P.C., and Tempelman-Kluit, D.J., 1976, Rb/Sr ages and a proble of initial ⁵⁷Sr/⁸⁶Sr ratios for plutonic rocks across the Yukon-Crystalline terrane: Canadian Journal of Earth Sciences, v. 13, p. 319-330.
- Lee-Wong, F., Vallier, T.L., Hopkins, D.M., and Silberman, M.L., 1979, Preliminary report on the petrography and geochemistry of basalts from the Pribilof Islands and vicinity, southern Bering Sea: U.S. Geological Survey Open-File Report 79–1556, 51 p.
- Lee-Wong, Florence, Vallier, T.L., Hopkins, D.M., and Silberman, M.L., 1979, Preliminary report on the petrography and geochemistry of basalt from the Pribilof Islands and vicinity, southern Bering Sea: U.S. Geological Survey Open-File Report 79–1556, 53 p.
- Leech, G.B., Lowdon, J.A., Stockwell, C.H., and Wanless, R.K., 1963, Age determinations and geological studies, including isotopic ages-report 4: Geological Survey of Canada Paper 63–17, 5 plates, 140 p.
- Leeman, W.P., 1983, The influence of crustal structure on compositions of subduction-related magmas: Journal of Volcanology and Geothermal Research, v. 18, p. 561–588.
- Leffingwell, E. de K., 1919, The Canning River region, northern Alaska: U.S. Geological Survey Professional Paper 109, 251 p.
- LeHuray, A.P., Church, S.E., and Nokleberg, W.J., 1985, Lead isotopes in massive sulfide deposits from the Jarvis Creek Glacier and Wrangellia terranes, Mount Hayes quadrangle, eastern Alaska Range, Alaska, *in* BartschWinkler, S., and Reed, M.M., eds., The United States Geological Survey in Alaska: accomplishments in 1983: U.S. Geological Survey Circular 945, p. 72–73.
- Leiggi, P.A., 1987, Style and age of tectonism of the Sadlerochit Mountains to Franklin Mountains, Arctic National Wildlife Refuge, Alaska, *in* Tailleur, I. and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif. Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 749–756.
- Lerand, M., 1973, Beaufort Sea, *in* McCrossam, R.G., ed., The future petroleum provinces of Canada; Their geology and potential: Canadian Society of Petroleum Geology Memoir 1, p. 315–386.
- Lerbekmo, J.F., and Campbell, F.A., 1969, Distribution, composition, and source of the White River Ash, Yukon Territory: Canadian Journal of Earth Sciences, v. 6, p. 109–116.
- Lerbekmo, J.F., Hanson, L.W., and Campbell, F.A., 1968, Application of particle size distribution to determination of source of a volcanic ash deposit: Proceedings of the 23rd International Geologic Congress, Prague, Section 2, p. 283–295.
- Lerbekmo, J.F., Westgate, J.A., Smith, D.G.W., and Denton, G.H., 1975, New, data on the character and history of the White River volcanic eruptions, *in* Suggate, R.P., and Cresswell, M.M., eds., Quaternary studies: Wellington, Royal Society of New Zealand, p. 203–209.
- Lerbekmo, T., and Campbell, F.A., 1969, Distribution, composition, and source of the White River ash, Yukon Territory: Canadian Journal of Earth Sciences, v. 6, p. 109–116.

- Levander, A., Fuis, G.S., Wissinger, E.S., Lutter, W.J., Oldow, J.S., and Moore, T. E., 1994, Seismic images of the Brooks Range fold and thrust belt, Arctic Alaska, from an integrated seismic reflection/refraction experiment: Tectonophysics, v. 233 [in press].
- Lewis, S.D., Ladd, J.W., and Bruns, T.R., 1988, Structural development of an accretionary prism by thrust and strike-slip faulting: Shumagin region, Aleutian trench: Geological Society of America Bulletin, v. 100, p. 767–782.
- Lewis, S.D., Ladd, J.W., Bruns, T.R., Hayes, D., and von Huene, R., 1984, Growth patterns of submarine canyons and slope basins, eastern Aleutian Trench, Alaska [abs.]: EOS (Transactions of the American Geophysical Union), v. 65, p. 1104.
- Lieberman, J.E., 1988, Metamorphic and structural studies of the Kigluaik Mountains, western Alaska: University of Washington, Ph.D. dissertation, 189 p.
- Lieberman, J.E., and Till, A.B., 1987, Possible crustal origin of garnet Iherzolite: Evidence from the Kigluaik Mountains, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 746.
- Linell, K.A., and Tedrow, J.C.F., 1981, Soil and permafrost surveys in the Arctic: New York, Oxford University Press, 279 p.
- Lipman, P.W., Doe, B.R., Hedge, C.E., and Steven, T.A., 1978, Petrologic evolution of the San Juan volcanic field, southwestern Colorado; Lead and strontium isotopic evidence: Geological Society of America Bulletin, v. 89, p. 59–82.
- Lipman, P., Prostka, H.J., and Christiansen, R.L., 1972, Cenozoic volcanism and plate tectonic evolution of western United States; Part 1, Early and middle Cenozoic: Philosophical Transactions of the Royal Society of London, series A, v. 271, p. 249–284.
- Lister, G.S., Banga, G., and Feenstra, A., 1984, Metamorphic core complexes of Cordilleran type in the Cyclades, Aegean Sea, Greece: Geology, v. 12, p.221–225.
- Little, T.A., 1990, Kinematics of wrench and divergent-wrench deformation along a central part of the Border Ranges fault system, northern Chugach Mountains, Alaska: Tectonics, v. 9, p. 585–611.
- Little, T.A., and Naeser, C.W., 1989, Tertiary tectonics of the Border Ranges fault system, Chugach Mountains, Alaska: Deformation and uplift in a fore arc setting; Journal of Geophysical Research, v. 94, p. 4333–4359.
- Little, T.A., Pessel, G.H., Newberry, R.J., and Decker, J.E., 1986, Geologic map of parts of the Anchorage C-4, D-4 and C-5 quadrangles, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Public Data File Map 86-28, scale 1:25,000.
- LKB Resources, Inc., 1978, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Chugach/Yakutat area, Alaska: U.S. Department of Energy, Grand Junction Office, Report GJBX 127(78), v. 2, scale 1:500,000.
- LKB Resources, Inc., 1978, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, Cook Inlet area, Alaska Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 108(78), v. 2, scale 1:500,000.
- LKB Resources, Inc., 1979, National Uranium Resource Evaluation aerial gamma-ray and magnetic reconnaissance survey, southeastern area, Alaska Final Report: U.S. Department of Energy, Grand Junction Office, Report GJBX 48(79), v. 2, scale 1:500,000.
- Lockhart, A.B., 1984, Gravity survey of the central Seward Peninsula: Fairbanks, University of Alaska, Master's thesis, 83 p.
- Loney, R.A., 1964, Stratigraphy and petrography of the Pybus-Gambier area, Admiralty Island, Alaska: U.S. Geological Survey Bulletin 1178, 103 p.
- Loney, R.A., and Brew, D.A., 1987, Regional thermal metamorphism and deformation of the Sitka Graywacke, southern Baranof Island, southeastern Alaska: U.S. Geological Survey Bulletin 1779, 17 p.
- Loney, R.A., and Himmelberg, G.R., 1983, Structure and petrology of the La Perouse gabbro intrusion, Fairweather Range, southeastern Alaska: Journal of Petrology, v. 24, part 4, p. 377–423.
- Loney, R.A., and Himmelberg, G.R., 1984, Preliminary report on ophiolites in the Yuki River and Mount Hurst areas, west-central Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 27–30.
- Loney, R.A., and Himmelberg, G.R., 1985, Distribution and character of the peridotite-layered gabbro complex of the southeastern Yukon-Koyukuk ophiolite belt, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 46–48.

- Loney, R.A., and Himmelberg, G.R., 1985, Ophiolitic ultramafic rocks of the Jade Mountains-Cosmos Hills area, southwestern Brooks Range, *in* BartschWinkler, S., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 967, p. 13–15.
- Loney, R.A., and Himmelberg, G.R., 1988, Ultramafic rocks of the Livengood terrane, in Galloway, J.P. and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 68–70.
- Loney, R.A., and Himmelberg, G.R., 1989, The Kanuti ophiolite, Alaska: Journal of Geophysical Research, v. 94, no. Bl 1, p. 15,869–15,900.
- Loney, R.A., Brew, D.A., and Lanphere, M.A., 1967, Post-Paleozoic ages and their relevance to fault movements, northern southeastern Alaska: Geological Society of America Bulletin, v. 78, no. 4, p. 511–526.
- Loney, R.A., Brew, D.A., Muffler, L.P.J., and Pomeroy, J.S., 1975, Reconnaissance geology of Chichagof, Baranof, and Kruzof Islands, southeastern Alaska: U.S. Geological Survey Professional Paper 792, 105 p., scale 1:250,000.
- Loney, R.A., Himmelberg, G.R., and Shew, N., 1987, Salt Chuck palladiumbearing ultramafic body, Prince of Wales Island, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geologic Survey during 1986: U.S. Geological Survey Circular 998, p. 126–127.
- Long, C.C., and Miyaoka, R., 1988, Resistivity cross-section, *in* Weber, F.R., McCammon, R.B., Rinehart, C.D., and Light, T.D., eds., Mineral resources of the White Mountain National Recreation Area, east-central Alaska: U.S. Geological Survey Open-File Report 88–284, p. 73–76.
- Lonsdale, P., 1988, Paleogene history of the Kula Plate: Offshore evidence and onshore implications: Geological Society of America Bulletin, v. 100, p. 733–754.
- Lowdon, J.A., compiler, 1961, Age determinations by the Geological Survey of Canada; report 2-isotopic ages: Canada Geological Survey Paper 61-17, 127 p.
- Lowdon, J.A., compiler, 1962, Isotopic ages, Report 3, *in* Age determinations by the Geological Survey of Canada, part I: Geological Survey of Canada Paper 62–17, p. 29.
- Lowe, P.C., Richter, D.H., Smith, R.L., and Schmoll, H.R., 1982, Geologic map of the Nabesna B-5 quadrangle, Alaska: U.S. Geological Survey Geologic quadrangle Map GQ-1566, scale 1:63,360.
- Lowenstern, J.B., 1990, Pre-eruptive water content of high-silica rhyolite and dacite from the 1912 eruption at the Valley of Ten Thousand Smokes, Alaska: EOS (Transactions of the American Geophysical Union), v. 71, p. 1690.
- Luedke, R.G., and Smith, R.L., 1986, Map showing distribution, composition, and age of Late Cenozoic volcanic centers in Alaska, U.S. Geological Survey Miscellaneous Investigations Series Map I–1091–F, scale 1:1,000,000.
- Lull, J.S., and Plafker, G., 1985, Petrography of sandstone from the Yakutat Group, Malaspina district, southern Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The U.S. Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 73–77.
- Lull, J.S., and Plafker, G., 1990, Geochemistry and paleotectonic implications of metabasaltic rocks in the Valdez Group, southern Alaska, *in* Dover, J.H., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1989: U.S. Geological Survey Bulletin 1946, p. 29–38:
- Luthy, S.T., Foster, H.L., and Cushing, G.W., 1981, Petrographic and chemical data on Cretaceous granitic rocks of the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 81–398, 12 p.
- Lyle, W.M., and Palmer, I.F., Jr., 1976, A stratigraphic study of the Gulf of Alaska Tertiary Province, northern Gulf of Alaska area: Fairbanks, Alaska Department of Natural Resources, Division of Geological and Geophysical Surveys Open-File Report 93, 24 p.
- Lyle, W.M., Morehouse, J.A., Palmer, I.F., Jr., and Bolm, J.G., 1979, Tertiary formations and associated Mesozoic rocks in the Alaska Peninsula area, Alaska, and their petroleum-reservoir and source-rock potential: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 62, 18 plates, 65 p.
- Lyle, W.M., Palmer, I.F., Bolm, J.G., and Flett, T., 1982, Hydrocarbon reservoir and source rock characteristics from selected areas of southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 77, 35 p.
- Lyle, W., Morehouse, J., Palmer, I.F., Jr., Bolm, J.G., Moore, G.W., and Nilsen, T.H., 1977, Tertiary formations in the Kodiak Island area, Alaska, and their petroleum reservoir and source-rock potential: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 114, 48 p.
- MacDonald, G.A., and Katsura, T., 1964, Chemical composition of Hawaiian lavas: Journal of Petrology, v. 5, no. 1, p. 82–133.

- Mackay, J.R., 1972, The world of underground ice: Annals of the Association of American Geographers, v. 62, no. 1, p. 1–22.
- MacKevett, E.M., Jr., 1963, Geology and ore deposits of the Bokan Mountain uranium-thorium area, southeastern Alaska: U.S. Geological Survey Bulletin 1154, 125 p.
- MacKevett, E.M., Jr., 1965, Ore controls at the Kathleen-Margaret (Maclaren River) copper deposit, Alaska: U.S. Geological Survey Professional Paper 501C, p. C116–C120.
- MacKevett, E.M., Jr., 1969, Three newly named Jurassic Formations in the McCarthy C-5 quadrangle, Alaska, *in* Cohee, G.V., Bates, R.G., and Wright, W.B., eds., Changes in stratigraphic nomenclature by the U.S. Geological Survey 1967: U.S. Geological Survey Bulletin 1274–A, p. A35–A49.
- MacKevett, E.M., Jr., 1970, Geology of the McCarthy B-4 quadrangle, Alaska: U.S. Geological Survey Bulletin 1333, 31 p.
- MacKevett, E.M., Jr., 1971, Stratigraphy and general geology of the McCarthy C-5 quadrangle, Alaska: U.S. Geological Survey Bulletin 1323, 35 p.
- MacKevett, E.M., Jr., 1976, Mineral deposits and occurrences in the McCarthy quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-773B, 2 sheets, scale 1:250,000.
- MacKevett, E.M., Jr., 1976, Geologic map of the McCarthy quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-773-A, scale 1:250,000.
- MacKevett, E.M., Jr., 1978, Geologic map of the McCarthy quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1-1032, 1 sheet, scale 1:250,000.
- MacKevett, E.M., Jr., and Berg, H. C., 1963, Geology of the Red Devil quicksilver mine, Alaska: U.S. Geological Survey Bulletin 1142–G, 16 p.
- MacKevett, E.M., Jr., and Blake, M.C., Jr., 1963, Geology of the North Bradfield River iron prospect, southeastern Alaska: U.S. Geological Survey Bulletin 1108–D, p. D1–D21.
- MacKevett, E. M., Jr., and Holloway, C. D., 1977, Map showing metalliferous and selected nonmetalliferous mineral deposits in the eastern part of southern Alaska: U.S. Geological Survey Open-File Report 77–169A, 99 p., 1 sheet, scale 1:1,000,000.
- MacKevett, E.M., Jr., and Holloway, C.D., 1977, Map showing metalliferous mineral deposits in the western part of southern Alaska: U.S. Geological Survey Open-File Report 77–169F, 1 sheet, scale 1:1,000,000, 39 p.
- MacKevett, E.M., Jr., and Holloway, C.D., 1977, Table describing metalliferous and selected nonmetalliferous mineral deposits in eastern southern Alaska: U.S. Geological Survey Open-File Report 77–169, 99 p.
- MacKevett, E.M., Jr., and Plafker, G., 1974, The Border Ranges fault in south-central Alaska: U.S. Geological Survey Journal of Research, v. 2, no. 3, p. 323–329.
- MacKevett, E.M., Jr., Brew, D.A., Hawley, C.C., Huff, L.C., and Smith, J.G., 1971, Mineral resources of Glacier Bay National Monument, Alaska: U.S. Geological Survey Professional Paper 632, 90 p.
- MacKevett, E.M., Jr., Robertson, E.C., and Winkler, G.R., 1974, Geology of the Skagway B-3 and B-4 quadrangles, southeastern Alaska: U.S. Geological Survey Professional Paper 832, 33 p.
- MacKevett, E.M., Jr., Gardner, M.C., Bergman, S.C., Cushing, G., and McClelland, W.D., 1986, Geological evidence for Late Pennsylvanian juxtaposition of Wrangellia and the Alexander terrane, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 128.
- MacKevett, E.M., Jr., Smith, J.G., Jones, D.L., and Winkler, G.R., 1978, Geologic map of the McCarthy C-8 quadrangles, Alaska: U.S. Geological Survey Geologic Quadrangle Map GQ-1418, 1 sheet, scale 1:63,360.
- Maddren, A.G., 1905, Smithsonian exploration in Alaska in 1904, in Search of mammoth and other fossil remains: Smithsonian Miscellaneous Collections, v. 49, no. 1584, 117 p.
- Maddren, A.G., 1913, The Koyukuk-Chandalar region, Alaska: U.S. Geological Survey Bulletin 532, 119 p.
- Maddren, A.G., 1919, Sulphur on Unalaska and Akun Islands and near Stepovak Bay, Alaska: U.S. Geological Survey Bulletin 692–E, p. 268–298.
- Maddren, A.G., and Harrington, G.L., 1955, Geologic maps of the area along the Alaska-Canada boundary between the Porcupine River and Arctic Ocean: U.S. Geological Survey Open-File Report 55–105.
- Magaritz, M., and Taylor, H.P., Jr., 1976, Isotopic evidence for meteorichydrothermal alteration of plutonic igneous rocks in the Yakutat Bay and Skagway areas, Alaska: Earth and Planetary Science Letters, v. 30, p. 179–190.

- Magoon, L.B., 1988, Petroleum systems of the United States: U.S. Geological Survey Bulletin 1870, 68 p.
- Magoon, L.B., Adkison, W.L., and Egbert, R.M., 1976, Map showing geology, wildcat wells, Tertiary plant fossil localities, K-Ar age dates, And petroleum operations, Cook Inlet area, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1-1019, 3 sheets, scale 1:250,000.
- Magoon, L.B., and Bird, K.J., 1985, Alaskan North Slope petroleum geochemistry for the Shublik Formation, Kingak Shale, pebble shale unit, and Torok Formation, *in* Magoon, L.B., and Claypool, G.E., eds., Alaska North Slope oil/rock correlation study: American Association of Petroleum Geologists Special Studies in Geology 20, p. 31–48.
- Magoon, L.B., and Bird, K.J., 1988, Evaluation of petroleum source rocks in the National Petroleum Reserve in Alaska using carbon content, visual kerogen, and vitrinite reflectance, *in* Gryc, G., ed., Geology of the National Petroleum Reserve in Alaska: U.S. Geological Survey Professional Paper 1399, p. 381–450.
- Magoon, L.B., and Claypool, G.E., 1981, Petroleum geology of Cook Inlet basin, Alaska; An exploration model: American Association of Petroleum Geologists Bulletin, v. 65, no. 6, p. 1043 1061.
- Magoon, L.B., and Claypool, G.E., 1981, Two oil types on the North Slope of Alaska; Implications for exploration: American Association of Petroleum Geologists Bulletin, v. 65, no. 4, p. 644–652.
- Magoon, L.B., and Claypool, G.E., 1983, Petroleum geology of the North Slope of Alaska; Time and degree of thermal maturity, *in* Bjoroy, M., ed., Proceedings of 10th International Meeting on Organic Chemistry; Advances in organic geochemistry, 1981: Chichester, John Wiley and Sons, p. 28–38.
- Magoon, L.B., and Claypool, G.E., 1984, The Kingak Shale of northern Alaska; Regional variations in organic geochemical properties and petroleum source rock quality, *in* Schenck, P.A., de Leeuw, J.W., and Lijmbach, G.W.M., eds., Advances in organic geochemistry 1983: Organic Geochemistry, v. 6, p. 533–542.
- Magoon, L.B., and Claypool, G.E., 1985, Alaska North Slope oil/rock correlation study: American Association of Petroleum Geologists Special Studies in Geology 20, 682 p.
- Magoon, L.B., and Claypool, G.E., 1988, Geochemistry of oil occurrences, National Petroleum Reserve in Alaska, *in* Gryc, G., ed., Geology of the National Petroleum Reserve in Alaska: U.S. Geological Survey Professional Paper 1399, p. 519–549.
- Magoon, L.B., and Egbert, R.M., 1986, Framework geology and sandstone composition, *in* Magoon, L.B., ed., Geologic studies of the Lower Cook Inlet COST No. 1 Well, Alaska outer continental shelf: U.S. Geological Survey Bulletin 1596, p. 65–90.
- Magoon, L.B., ed., 1986, Geologic studies of the lower Cook Inlet COST No. 1 well, Alaska Outer Continental Shelf: U.S. Geological Survey Bulletin 1596, 99p.
- Magoon, L.B., Griesbach, F.R., and Egbert, R.M., 1980, Nonmarine Upper Cretaceous rocks, Cook Inlet, Alaska: American Association of Petroleum Geologists Bulletin, v. 64, no. 8, p. 1259–1266.
- Magoon, L.B., Woodward, P.V., Banet, A.C., Griscom, S.B., and Daws, T.A., 1987, Thermal maturity, richness, and type of organic matter of source–rock units, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 127–179.
- Magoon, L.B., 1988, The petroleum system; A classification scheme for research, exploration, and resource assessment, *in* Magoon, L.B., ed., Petroleum systems of the United States: U.S. Geological Survey Bulletin 1870, p. 2–15.
- Magoon, L.B., III, 1994, Petroleum resources in Alaska, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America.
- Malahoff, Alexander, and Woollard, G.P., 1966, Magnetic surveys over the Hawaiian Islands and their geologic implications: Pacific Science, v. 20, p. 285–311.
- Malahoff, Alexander, and Woollard, G.P., 1968, Geophysical studies of the Hawaiian Ridge and Murray Fracture Zone, *in* Maxwell, W.E., ed., The Sea, Wiley-Interscience, v. 4, Part II, p. 73–131.
- Malahoff, Alexander, and Woollard, G.P., 1968, Magnetic and tectonic trends over the Hawaiian Ridge *in* Knopoff, C., Drake, C.L., Hart, P.J., eds., The Crust and Upper Mantle of the Pacific Area, American Geophysical Union Monograph 12, p. 501–516.
- Mamet, B.L., and Pinard, S., 1985, 9 Carboniferous algae from the Peratrovich Formation, southeastern Alaska, *in* Toomey, D.F., and Nitecki, M.H., eds., Paleoalgology; Contemporary research and applications: New York, Springer-Verlag, p. 91–100.
- Mamet, B.L., and Plafker, G., 1982, A Late Devonian (Frasnian) Microbiota from the Farewell-Lyman Hills area, west-central Alaska: U.S. Geological Survey Professional Paper 1216-A, p. Al–A10.

- Mancini, E.A., Deeter, T.M., and Wingate, F.H., 1978, Upper Cretaceous arc-trench gap sedimentation on the Alaska Peninsula: Geology, v. 6, p. 437–439.
- Mankinen, E.A., and Dalrymple, G.B., 1979, Revised geomagnetic polarity time scale for the interval 0 5 m.y. B.P.: Journal of Geophysical Research, v. 84, p. 615–626.
- Mankinen, E.A., and Plafker, G., 1987, Paleomagnetic evidence for a latest Pliocene and early Pleistocene age of the upper Yakataga Formation on Middleton Island, Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 132–136.
- Mann, D.H., 1986, Wisconsin and Holocene glaciation of southeast Alaska, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geologic Society, p. 237–265.
- Mann, D.H., 1992, High resolution dating of moraines on Kodiak Island, Alaska, links Atlantic and North Pacific climatic changes during the late glacial [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. A346.
- Manning, C.E., and Bird, D.K., 1986, Hydrothermal clinopyroxenes of the Skaergaard intrusion: Contributions to Mineralogy and Petrology, v. 92, p. 437–447.
- Maresch, W.V., 1977, Experimental studies on glaucophane; An analysis of present knowledge: Tectonophysics, v. 43, p. 109–125.
- Margaritz, M., and Taylor, H.P., Jr., 1976, Isotopic evidence for meteorichydrothermal alteration of plutonic igneous rocks in Yakutat Bay and Skagway areas, Alaska: Earth and Planetary Science Letters, v. 30, p. 179–190.
- Margaritz, M., and Taylor, H.P., Jr., 1976, Oxygen, hydrogen, and carbon isotope studies on the Franciscan Formation, Coast Ranges, California: Geochimica et Cosmochimica Acta, v. 40, p. 215–234.
- Marinai, R.K., 1987, Petrography and diagenesis of the Ledge Sandstone Member of the Triassic Ivishak Formation, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 101–115.
- Marincovich, L.N., Jr., 1983, Molluscan paleontology, paleoecology, and North Pacific correlation of Miocene Tachilni Formation, Alaska Peninsula: Bulletin of American Paleontology, v. 84, no. 317, p. 155.
- Marincovich, L., Jr., 1989, Tectonically-induced early middle Miocene marine glaciation and molluscan faunas in the Gulf of Alaska [abs.]: Geological Society of American Abstracts with Programs, v. 21, p. A115.
- Marincovich, L., Jr., 1990, Molluscan evidence for early middle Miocene marine glaciation in southern Alaska: Geological Society of America Bulletin, v. 102, p. 1591–1599.
- Marincovich, Louie, Jr., Brouwers, Elisabeth, and Carter, L.D., 1984, Early Tertiary marine fossils from Ocean Point, Arctic coastal plain, and their relation to Arctic Ocean paleogeography, *in* Reed, K.M., and Bartsch-Winkler, Susan, eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 15–17.
- Mark, R.K., 1971, Strontium isotopic study of basalts from Nunivak Island, Alaska: Palo Alto, Calif., Stanford University, Ph.D. dissertation, 50 p.
- Mark, R.K., 1972, Strontium isotopic study of basalts from Nunivak Island, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 4, p. 194–195.
- Marlow, M.S., 1979, Hydrocarbon prospects in Navarin basin province, northwest Bering Sea shelf: Oil and Gas Journal, October, p. 190–196.
- Marlow, M.S., and Cooper, A.K., 1980, Multichannel seismic-reflection probles collected in 1976 in the southern Bering Sea shelf: U.S. Geological Survey Open-File Report 80–389, 2 p.
- Marlow, M.S., and Cooper, A.K., 1980, Mesozoic and Cenozoic structural trends under southern Bering Sea Shelf: American Association of Petroleum Geologists Bulletin, v. 64, no. 12, p. 2139–2155.
- Marlow, M.S., and Cooper, A.K., 1983, Wandering terranes in southern Alaska: The Aleutia microplate and implications for the Bering Sea: Journal of Geophysical Research, v. 88, p. 3439–3446.
- Marlow, M.S., and Cooper, A.K., 1985, Regional geology of the Beringian continental margin, *in* Nasu, N., and others, eds., Formation of active ocean margins: Tokyo, Terra Scientific Publishing Co., p. 497–515.
- Marlow, M.S., and Cooper, A.K., 1986, Regional geology of the Beringian margin, *in* Proceedings of the Oji International Seminar on the formation of ocean margins: Tokyo, Japan, University of Tokyo, p. 497–515.
- Marlow, M.S., Cooper, A.K., and Childs, J.R., 1983, Tectonic evolution of Gulf of Anadyr and formation of Anadyr and Navarin basins: American Association of Petroleum Geologists Bulletin, v. 67, p. 646–665.

- Marlow, M.S., Cooper, A.K., Scholl, D.W., Vallier, T.L., and McLean, H., 1982, Ancient plate boundaries in the Bering Sea region, *in* Leggett, J.K., ed., Trench-forearc geology; Sedimentation and tectonics on modern and ancient active plate margins: Geological Society of London Special Publication 10, p. 201–211.
- Marlow, M.S., Scholl, D.W., and Buffington, E.C., 1973, Tectonic history of the central Aleutian arc: Geological Society of America Bulletin, v. 84, p. 1555–1574.
- Marlow, M.S., Scholl, D.W., and Cooper, A.K., 1977, St. George basin Bering Sea shelf; A collapsed Mesozoic margin, *in* Talwani, M., and Pitman, W.C., III, eds., Island arcs, deep sea trenches, and back-arc basins: American Geophysical Union Maurice Ewing Series, v. 1, p. 211–220.
- Marlow, M.S., Cooper, A.K., and Fisher, M.A., 1994, Basins of the eastern Bering Sea continental shelf, Alaska, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America
- Marlow, M.S., Scholl, D.W., Buffington, E.C., and Alpha, T.R., 1973, Tectonic history of the central Aleutian arc: Geological Society America Bulletin, v. 84, no. 5, p. 1555–1574.
- Marlow, M.S., Scholl, D.W., Cooper, A.K., and Buffington, E.C., 1976, Structure and evolution of Bering Sea Shelf south of St. Lawrence Island: American Association of Petroleum Geologists Bulletin, v. 60, no. 2, p. 161–183.
- Marquis, G., and Globerman, B.R., 1987, Paleomagnetism of the Upper Cretaceous Carmacics Group, west of Tintina Trench fault, Yukon and British Columbia: EOS (Transactions of the American Geophysical Union), v. 68, p. 1254.
- Marsh, B.D., 1976, Some Aleutian andesites; Their nature and source: Journal of Geology, v. 87, p. 27-45.
- Marsh, B.D., 1979, Island arc development; Some observations, experiments, and speculations: Journal of Geology, v. 87, p. 687–714.
- Marsh, B.D., 1979, Island arc volcanism: American Scientist, v. 67, p. 161.
- Marsh, B. D., 1980, Geology and petrology of northern Atka, Aleutian Islands, Alaska [abs.]: Geological Society of Amenca, Abstracts with Programs, v. 12, p. 476.
- Marsh, B.D., 1981, On the crystallinity, probability of occurrence, and rheology of lavas and magmas: Contributions to Mineralogy and Petrology, v. 78, p. 85–98.
- Marsh, B.D., 1982, The Aleutians, *in* Thorpe, R.S., ed., Andesites: orogenic andesites and related rocks: New York, John Wiley and Son, p. 99–114.
- Marsh, B.D., 1982, On the mechanics of igneous diapirism, stoping, and zone melting: American Journal of Science, v. 282, p. 808–855.
- Marsh, B.D., 1987, Petrology and evolution of the N.E. Pacific including the Aleutians: Pacific Rim Congress 87, p. 309–315.
- Marsh, B.D., 1978, On the cooling of ascending andesitic magma: Philosophical Transaction Royal Society of London A, v. 288, p. 611–625.
- Marsh, B.D., 1976, Some Aleutian andesites; Their nature and source: Journal of Geology, v. 84, p. 27–45.
- Marsh, B.D., and Carmichael, I.S.E., 1974, Benioff zone magmatism: Journal of Geophysical Research, v. 79, p . 1196–1206.
- Marsh, B.D., and Kantha, L.H., 1978, On the heat and mass transfer from an ascending magma: Earth and Planetary Science Letters, v. 39, p. 435–443.
- Marsh, B.D., and Leitz, R.E., 1978, Geology of Amak Island, Aleutian Islands, Alaska: Journal of Geology, v. 87, p. 715–723.
- Marsh, B.D., Fournelle, J.H., Myers, J.D., and Chou, I.M., 1990, On plagioclase thermometry in island-arc rocks; Experiments and theory, *in* Spencer, R.J., and Chou, I.M., eds., Fluid-mineral interactions, A tribute to H.P. Eugster: Geochemical Society Special Publication, v. 2, p. 65–83.
- Marsh. B.D., and Leitz, R.E., 1979, Geology of Amak Island, Aleutian Islands, Alaska: Journal of Geology, v. 87, p. 715–723.
- Marshak, R.S., and Karig, D.E., 1977, Triple junctions as a cause for anomalously near-trench igneous activity between the trench and volcanic arc: Geology, v. 5, p. 233–236.
- Marshall, M., 1978, The magnetic properties of some DSDP basalts from the North Pacific and inferences for Pacific plate tectonics: Journal of Geophysical Research, v. 83, no. Bl, p. 289–308.

- Martin, A.J., 1970, Structure and tectonic history of the western Brooks Range, De Long Mountains, and Lisburne Hills, northern Alaska: Geological Society of America Bulletin, v. 81, p. 3605–3622.
- Martin, G.C., 1908, Geology and mineral resources of the Controller Bay region, Alaska: U.S. Geological Survey Bulletin 335, 10 plates, 141 p.
- Martin, G.C., 1915, The western part of Kenai Peninsula, *in* Martin, G.C., Johnson, B.L., and Grant, U. S., Geology and mineral resources of Kenai Peninsula, Alaska: U.S. Geological Survey Bulletin 587, p. 41–112.
- Martin, G.C., 1921, Gold lodes of the upper Kuskokwim region, Alaska: U.S. Geological Survey Bulletin 722, p. 149.
- Martin, G.C., 1926, The Mesozoic stratigraphy of Alaska: U.S. Geological Survey Bulletin 776, 493 p.
- Martin, G.C., and Callahan, J.E., 1978, Preliminary report on the coal resources of the National Petroleum Reserve in Alaska: U.S. Geological Survey Open-File Report 78–1033, 2 plates, 23 p.
- Martin, G.C., and Katz, F.J., 1912, Geology and coal fields of the Lower Matanuska Valley, Alaska: U.S. Geological Survey Bulletin 500, 19 plates, 98 p.
- Martin, G.C., Johnson, B.L., and Grant, U.S., 1915, Geology and mineral resources of the Kenai Peninsula, Alaska: U.S. Geological Survey Bulletin 587, 243 p.
- Martinson, D.G., and 5 others, 1987, Age dating and the orbital theory of the ice ages; Development of a high-resolution 0 to 300,000-year chronostratigraphy: Quaternary Research, v. 27, p. 1–29.
- Marvin, R.F., and Cole, J.C., 1978, Radiometric ages: Compilation A, U.S. Geological Survey: Isochron/West, no. 22, p. 3–14.
- Marvin, R.F., and Dobson, S.W., 1979, Radiometric ages: Compilation B, U.S. Geological Survey: Isochron/West, no. 26, p. 3–30.
- Masterson, W.D., and Paris, C.E., 1987, Depositional history and reservoir description of the Kuparuk River Formation, North Slope, Alaska, *in* Taileur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 95–107.
- Matlick, J.S., and Parmentier, P.P., 1983, Geothermal manifestations and results of a mercury soil survey in the Makushin geothermal area, Unalaska Island, Alaska: Geothermal Resources Council Transactions, v. 7, p. 305–309.
- Matteson, C., 1973, Geology of the Slate Creek area, Mt. Hayes (A-2) quadrangle, Alaska: Fairbanks, University of Alaska, Master's thesis, 66 p.
- Matthews, J.V., Jr., 1990, New data on Pliocene floras/faunas from the Canadian Arctic and Greenland, *in* Gosnell, L.B., and Poore, R.Z., eds., Pliocene climates; Scenario for global warming: U.S. Geological Survey Open-File Report 90–64, p. 29–33.
- Matthews, J.V., Jr., Schweger, C.E., and Hughes, O.L., 1989, Climatic change in eastern Beringia during oxygen isotope stages 2 and 3; Proposed thermal events, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 34–38.
- Mattinson, J., 1978, Age, origin, and thermal histories of some plutonic rocks from the Salinian block: Contributions to Mineralogy and Petrology, v. 67, p. 233–245.
- Mattioli, G.S., and Wood, B.J., 1986, Upper mantle oxygen fugacity recorded by spinel Iherzolites: Nature, v. 322, p. 626–628.
- Matumoto, T., 1971, Seismic body waves observed in the vicinity of Mount Katmai, Alaska, and evidence for the existence of molten chambers: Geological Society of America Bulletin, v. 82, p. 2905–2920.
- Matzko, J.J., Jaffe, H.W., and Waring, C.L., 1958, Lead-alpha age determinations of granitic rocks from Alaska: American Journal of Science, v. 256, no. 8, p. 529–539.
- Maucher, A., 1976, The strata-bound cinnabar-stibnite-scheelite deposits, *in* Wolf, K.H., ed., Handbook of strata-bound and stratiform ore deposits, Volume 7: Amsterdam, Elsevier Publishing Company, p. 477–503.
- May, S.D., 1985, Free air gravity anomaly map of the Chukchi and Alaskan Beaufort Seas, Arctic Ocean: U.S. Geological Survey Miscellaneous Investigations Series Map I-1182-E, 1 sheet, scale 1:1,000,000.
- May, S.D., and Grantz, A., 1990, Sediment thickness in the southern Canada Basin: Marine Geology, v. 93, p. 331-347.
- May, S.R., and Butler, R.F., 1986, North American Jurassic apparent polar wander; Implications for plate motion, paleogeography, and Cordilleran tectonics: Journal of Geophysical Research, v. 91, p. 11519–11544.

- Mayfield, C.F., 1975, Metamorphism in the southwestern Brooks Range, *in* Geological Survey research 1975: U.S. Geological Survey Professional Paper 975, p. 64–65.
- Mayfield, C.F., 1980, Comment *on*: collision-deformed Paleozoic continental margin, western Brooks Range, Alaska": Geology, v. 8, p. 357–359.
- Mayfield, C.F., and Tailleur, I.L., 1978, Bedrock geology map of the Ambler River quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–120A, scale 1:250,000.
- Mayfield, C.F., Curtis, S.M., Ellersieck, Inyo, and Taillieur, I.L., 1984, Reconnaissance geologic map of southeastern Misheguk Mountain quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1503, scale 1:63,360.
- Mayfield, C.F., Curtis, S.M., Ellersieck, I.F., and Tailleur, I.L., 1979, Reconnaissance geology of the Ginny Creek zinc-lead-silver and Nimiuktuk barite deposits, northwestern Brooks Range, Alaska: U.S. Geological Survey Open-File Report 79–1092, 20 p.
- Mayfield, C.F., Curtis, S.M., Ellersieck, Inyo, and Taillieur, I.L., 1990, Reconnaissance geologic map of the De Long Mountains A-3 and B-3 quadrangles and parts of the A-4 and B-4 quadrangles: U.S. Geological Survey Miscellaneous Investigations Series Map I–1929, scale 1:63,360.
- Mayfield, C. F., Ellersieck, I., and Tailleur, I. L., 1987, Reconnaissance geologic map of the Noatak C-5, D-5, D-6, and D-7 quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigation Series Map 1–1814, scale 1:63,360.
- Mayfield, C.F., Silberman, M.L., and Tailleur, I.L., 1982, Precambrian metamorphic rocks from the Hub Mountain terrane, Baird Mountains quadrangle, Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 18–22.
- Mayfield, C.F., Tailleur, I.L., and Ellersieck, I., 1983, Stratigraphy, structure, and palinspastic synthesis of the western Brooks Range, northwestern Alaska: U.S. Geological Survey Open-File Report 83–779, 5 sheets, scale 1:1,000,000, 58 p.
- Mayfield, C.F., Tailleur, I.L., and Ellersieck, Inyo, 1988, Stratigraphy, structure, and palinspastic synthesis of the western Brooks Range, northwestern Alaska, *in* Gryc, George, ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974-1982: U.S. Geological Survey Professional Paper 1399, pl. 7.1–7.4, p. 143–186.
- Mayfield, C.F., Tailleur, I.L., Mull, C.G., and Sable, E.G., 1978, Bedrock geologic map of the south half of National Petroleum Reserve in Alaska: U.S. Geological Survey Open-File Report 78–70–B, scale 1:500,000.
- Mayfield, C.F., Tailleur, I.L., Mull, C.G., and Silberman, M.L., 1978, Granitic clasts from Upper Cretaceous conglomerate in the northwestern Brooks Range, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B11–B13.
- Mayfield, C.F., Tailleur, I.L. Albert, N.R.D., Ellersieck, Inyo, Grybeck, Donald, and Hackett, S.S., 1983, The Alaska Mineral Resource Assessment Program: Background information to accompany folio of geologic and mineral resource maps of the Ambler River quadrangle, Alaska: U.S. Geological Survey Circular 793, 31 p.
- McCabe, P., 1984, Depositional environments of coal and coal-bearing strata, *in* Rahmani, R.A., and Flores, R. M., eds., Sedimentology of coal and coal-bearing sequences (International Association of Sedimentologists Special Publication 7): Oxford, Blackwell Scientific Publications, p. 13–40.
- McCarthy, J., and Scholl, D.W., 1985, Mechanisms of subduction accretion along the central Aleutian trench: Geological Society of America Bulletin, v. 96, p.691–701.
- McCarthy, J., Stevenson, A.J., Scholl, D.W., and Vallier, T.L., 1984, Perspective remarks concerning the petroleum geology of the Aleutian accretionary prism: Petroleum and Marine Geology, v. 1, p. 151–167.
- McClelland, L., Simkin, T., Summers, M., Nielsen, E., and Stein, T.C., 1989, Global Volcanism, 1975-1985: Englewood Cliffs, New Jersey, Prentice Hall, 655 p.
- McClelland, W.C., and Gehrels, G.E., 1987, Analysis of a major shear zone in Duncan Canal, Kupreanof Island, southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 430.
- McClelland, W.C., and Gehrels, G.E., 1987, Evidence for early-Middle Jurassic deformation and metamorphism along the inboard margin of the Alexander terrane, SE Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 764.
- McClelland, W.C., and Gehrels, G.E., 1988, Characteristics of the Taku terrane (TT) and Gravina belt (GB) in the Petersburg region, central southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 20, p. 211.

- McClelland, W.C., Gehrels, G.E., and Saleeby, J.B., 1992, Upper Jurassic Lower Cretaceous basinal strata along the Cordilleran margin: Implications for the accretionary history of the Alexander-Wrangellia-Peninsular terrane: Tectonics, v. 11, p. 823–835.
- McClelland, W.C., Gehrels, G.E., Samson, S.D., and Patchett, P.J., 1992, Protolith relations of the Gravina belt and Yukon-Tanana terrane in central southeastem Alaska: Journal of Geology, v. 100, p. 107–123.
- McConnell, R.G., 1905, Report on the Klondike gold fields: Geological Survey of Canada Annual Report, n.s., v. 14, part B. 71 p. (Reprinted, 1957, *in* Bostock, H.S., ed., Yukon Territory; Selected field reports of the Geological Survey of Canada, 1898 to 1933: Geological Survey of Canada Memoir 284, p. 43 46).
- McCulloch, M.T., and Perfit, M.R., 1981, ¹⁴³Nd/¹⁴⁴Nd, ⁵⁷Sr/⁸⁶Sr, and trace element constraints on the petrogenesis of Aleutian island arc magmas: Earth and Planetary Science Letters, v. 56, p. 167–179.
- McCulloch, M.T., and Wasserburg, G.J., 1978, Sm-Nd and Rb-Sr chronology of continental crust formation: Science, v. 200, no. 4345, p. 1003–1011.
- McElhinny, M.W., 1973, Palaeomagnetism and plate tectonics: Cambridge, Cambridge University Press, 358 p.
- McElhinny, M.W., and Merrill, R.T., 1975, Geomagnetic secular variation over the past 5 m.y.: Reviews of Geophysics and Space Physics, v. 13, p. 687–708.
- McGeary, S.E., and Ben-Avraham, S., 1981, Allochthonous terranes in Alaska; Implications for the structure and evolution of the Bering Sea shelf: Geology, v.9, p.608–613.
- McGee, D.L., and O'Connor, K.M., 1975, Cook Inlet Basin subsurface coal reserve study: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 74, 3 plates, 24 p.
- McKenzie, D., 1984, The generation and compaction of partially molten rock: Journal of Petrology, v. 25, p. 713–765.
- McKenzie, G.D., and Goldthwait, R.@., 1971, Glacial history of the last eleven thousand years in Adams Inlet, southeastern Alaska: Geological Society of America Bulletin, v. 82, p. 1762–1782.
- McLean, H., 1977, Organic geochemistry, lithology, and paleontology of Tertiary and Mesozoic rocks from wells on the Alaska Peninsula: U.S. Geological Survey Open-File Report 77–813, 63 p.
- McLean, H., 1979, Review of petroleum geology of Anadyr and Khatyrka basins, USSR: American Association of Petroleum Geologists Bulletin, v. 63, p. 1467–1477.
- McLean, H., 1979, Tertiary stratigraphy and petroleum potential of Cold Bay False Pass area, Alaska Peninsula: American Association of Petroleum Geologists Bulletin, v. 63, p. 1522–1526.
- McLean, H., Hein, J.R., and Vallier, T.L., 1983, Reconnaissance geology of Amlia Island, Aleutian Islands, Alaska: Geological Society of America Bulletin, v. 94, p. 1020–1027.
- McLean, Hugh, and Hein, J.R., 1984, Paleogene geology and chronology of southwestern Umnak Island, Aleutian Islands, Alaska: Canadian Journal of Earth Sciences, v. 21, p. 171–180.
- McLean, Hugh, Engelhardt, C.L., and Howell, D.G., 1978, Reconnaissance geologic map of the Cold Bay and False Pass quadrangles, Alaska: U.S. Geological Survey Open-File Report 78–323, scale 1:250,000.
- McMullen, B.S., 1989, Structural geometry and evolution of the western Shublik Mountains, northeastern Brooks Range, Alaska: Fairbanks, University of Alaska, Master's thesis, 3 sheets, scale 1:25,000, 171 p.
- McNutt, S.R., and Jacob, K.H., 1986, Determination of large-scale velocity structure of the crust and upper mantle in the vicinity of Paviof Volcano, Alaska: Journal of Geophysical Research, v. 91, p. 5013–5022.
- McWhae, J.R., 1986, Tectonic history of northern Alaska, Canadian Arctic, and Spitzbergen regions since Early Cretaceous: American Association of Petroleum Geologists Bulletin, v. 70, no. 4, p. 430–450.
- Measures, E.A., Rohr, D.M., and Blodgett, R.B., 1992, Depositional environments and some aspects of the fauna of Middle Ordovician rocks of the Telsitna Formation, northern Kuskokwim Mountains, Alaska, *in* Bradley, D.C., and Dusel-Bacon, C., eds., Geologic Studies in Alaska by the U.S. Geological Survey, 1991: U.S. Geological Survey Bulletin 2041, p. 186–201.
- Meigs, A.J., 1986, Structural evolution of the eastern Sadlerochit Mountains, northeastern Alaska: a preliminary report on the summer 1986 field season: Fairbanks, Alaska Divisions of Mining and Geological and Geophysical Surveys Public Data File 86–86f, scale 1:25,000, 7 p.
- Meigs, A.J., 1989, Structural geometry and sequence in the eastern Sadlerochit Mountains, northeastern Brooks Range, Alask: Fairbanks, University of Alaska, Master's thesis, scale 1:25,000, 220 p.

- Melvin, J., 1987, Fluvio-paludal deposits in the lower Kekiktuk Formation (Mississippian), Endicott Field, northeast Alaska, *in* Ethridge, F. G., Flores, R. M., and Harvey, M. D., eds., Recent developments in fluvial sedimentology: Contributions from the Third International Fluvial Sedimentology Conference: Society of Economic Paleontologists and Mineralogists Special Publication 39, p. 343–352.
- Melvin, J., and Knight, A.S., 1984, Lithofacies, diagenesis and porosity of the Ivashak Formation, Prudhoe Bay area, Alaska, *in* McDonnld, D.A, and Surdam, R.C., eds., Clastic diagenesis: American Association of Petroleum Geologists Memoir 37, p. 347–365.
- Mendenhall, W.C., 1905, Geology of the central Copper River region, Alaska: U.S. Geologicai Survey Professional Paper 41, 133 p.
- Menzie, W.D., and Foster, H.L., 1978, Metalliferous and selected nonmetalliferous mineral resource potential in the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 78-529D, 60 p.
- Menzie, W.D., Foster, H.L., Tripp, R.B., and Yeend, W.E., 1983, Mineral resource assessment of the Circle quadrangle, Alaska: U.S. Geological Survey Open-File Report 83–170B, 1 sheet, scale 1:250,000, 57 p.
- Menzies, M.A., and 7 others, 1987, A record of subduction processes and within-plate volcanism in lithospheric xenoliths of the southwestern USA, *in* Nixon, P.H., eds., Mantle xenoliths: New York, J. Wiley and Sons, p. 59–74.
- Menzies, M., and Murthy, V.R., 1980, Mantle metasomatism as a precursor to the genesis of alkaline magmas; Isotopic evidence: American Journal of Science, v. 280–A, p. 622 638.
- Menzies, M., and Murthy, V.R., 1980,Nd and Sr isotope geochemistry of hydrous mantle nodules and their host alkali basalts; Implications for local heterogeneities in metasomatically veined mantle: Earth and Planetary Science Letters, v.46, p.323–334.
- Merrill, G.P., 1885, On hornblende andesites from the new volcano of Bogoslof Island in Bering Sea: Proceedings of U.S. National Museum, v. 8 (1886), p. 31–33.
- Merrill, R.T., and McElhinny, M.W., 1983, The earth's magnetic field; Its history, origin, and planetary perspective: New York, Academic Press, 401 p.
- Merritt, R.D., 1985, Review of coking phenomena in relation to an occurrence of prismatically fractured natural coke from the Castle Mountain Mine, Matanuska coal field, Alaska: International Journal of Coal Geology, v. 4, p. 281–298.
- Merritt, R.D., 1985, Coal atlas of the Nenana basin, Alaska: Alaska Division of Geological and Geophysical Surveys Public-Data File 85–41, 197 p.
- Merritt, R.D., and Belowich, M.A., 1984, Coal geology and resources of the Matanuska Valley, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–24, 3 plates, 64 p.
- Merritt, R.D., and Hawley, C.C., compilers, 1986, Map of Alaska's coal resources: Fairbanks, Alaska Division of Geological and Geophysical Surveys, scale 1:2,500,000.
- Merritt, R.D., and 6 others, 1987, Southern Kenai Peninsula (Homer District) coal resource assessment and mapping project—Final report: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File 87–15, 15 sheets, 125 p.
- Mertie, J.B., 1925, Geology and gold placers of the Chandalar district, Alaska: U.S. Geological Survey Bulletin 773–E, p. 215–263.
- Mertie, J.B., 1929, The Chandalar-Sheenjek district, Alaska: U.S. Geological Survey Bulletin 810-C, p. 87-139.
- Mertie, J.B., 1930, Geology of the Eagle-Circle district, Alaska: U.S. Geological Survey Bulletin 816, 168 p.
- Mertie, J.B., 1932, The Tatonduk-Nation district, Alaska: U.S. Geological Survey Bulletin 836-E, 109 p.
- Mertie, J.B., Jr., 1918, Lode mining in the Fairbanks district, Alaska: U.S. Geological Survey Bulletin 662-H, p. 404-424.
- Mertie, J.B., Jr., 1930, Mining in the Fortymile district, Alaska: U.S. Geological Survey Bulletin 813-C, p. 125-142.
- Mertie, J.B., Jr., 1936, Mineral deposits of the Ruby-Kuskokwim region, Alaska: U.S. Geological Survey Bulletin 864–C, p. 115–255.
- Mertie, J.B., 1937, The Yukon-Tanana region, Alaska: U.S. Geological Survey Bulletin 872, 276 p.
- Mertie, J.B., Jr., 1937, The Kaiyuh Hills, Alaska: U.S. Geological Survey Bulletin 868-D, p. 145-178.
- Mertie, J.B., Jr., 1938, Gold placers of the Fortymile, Eagle, and Circle districts, Alaska: U.S. Geological Survey Bulletin 897–C, 261 p.

- Mertie, J.B., Jr., 1976, Platinum deposits of the Goodnews Bay district, Alaska: U.S. Geological Survey Professional Paper 938, 42 p.
- Mertie, J.B., Jr., and Harrington, G. L., 1924, The Ruby–Kuskokwim region, Alaska: U.S. Geological Survey Bulletin 754, 129 p.
- Merzbacher, C., 1983, Water-saturated and undersaturated phase relations of the Mount St. Helens dacite magma erupted on May 18, 1980, and an estimate of the pre-eruptive water content: University Park, Pennsylvania State University, Master's thesis, 54 p.
- Merzbacher, C., and Eggler, D.H., 1984, A magmatic geohygrometer; Application to Mount St. Helens and other dacitic magmas: Geology, v. 12, p. 587–590.
- Metcalfe, P., and Clark, G.S., 1983, Rb-Sr whole-rock age of the Klondike Schist, Yukon Territory: Canadian Journal of Earth Sciences, v. 20, no. 5, p. 886–891.
- Metz, P.A., 1976, Occurrences of sodic amphibole-bearing rocks in the Valdez C-2 quadrangle: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 51, p. 27–28.
- Metz, P.A., 1981, Mining, processing, and marketing of coal from Jarvis Creek Field [abs.], *in* Rao, P. D., and Wolff, E. N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21 23, 1980): University of Alaska Mineral Industries Research Laboratory Report no.50, p. 171.
- Metz, P.A., and Halls, C., 1981, Ore petrology of the Au-Ag-Sb-W-Hg mineralization of the Fairbanks mining district, Alaska [abs.]: Proceedings of Mineralization of the Precious Metals, Uranium, and Rare Earths, University College, Cardiff, Wales, 1981, p. 132.
- Metz, P.A., and Robinson, M.S., 1980, Investigation of mercury-antimony-tungsten metal provinces of Alaska, 11: Fairbanks, University of Alaska, Mineral Research Industry Laboratory Open-File Report 80–8, 39 p.
- Metz, P.A., Egan, A., and Johanson, O., 1982, Landsat linear features and incipient rift system model for ongin of base-metal and petroleum resources in northern Alaska, *in* Embry, A.F., and Balkhill, H.R., eds., Arctic geology and geophysics: Canadian Society of Petroleum Geologists Memoir 8, p. 101–112.
- Metz, Paul, 1975, Geology of the central portion of the Valdez C-2 quadrangle, Alaska: Fairbanks, University of Alaska, Master's thesis, 3 plates, 65 p.
- Meyer, J.F., and Krouskop, D.L., 1984, Preliminary gravity data, Holitna basin, south central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–25, 2 plates, scale 1:500,000, 6 p.
- Meyer, J.F., and Krouskop, D.L., 1986, Preliminary gravity data, of the Minchumina basin, south central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 86–1, 2 plates, scale 1:500,000, 14 p.
- Meyers, H., 1976, A historical summary of earthquake epicenters in and near Alaska: National Oceanic and Atmospheric Administration, Environmental Data Service, Technical Memorandum EDSMGSDC-1, 56 p.
- Mickey, M.B., and Haga, H., 1983, Jurassic-Neocomian seismic stratigraphy, NPRA: Boulder, Colo., National Geophysical Data Center, Item TGY—0220–BL, 133 p.
- Mickey, M.R, and Haga, H., 1987, Jurassic Neocomian biostratigraphy, North Slope, Alaska, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists Pacific Section, and Alaska Geological Society Book 50, vols. 1 and 2, p. 397–404.
- Mihalynuk, M.G., and Mounboy, K.J., 1989, Geology of the Tagish Lake area (104M/8,9E): Ministry of Energy, Mines, and Petroleum Resources, British Columbia, Paper 1990–1, p. 181–196.
- Milazzo, G., Plumley, P.W., and Whalen, M.T., 1987, Tertiary tectonics of the Porcupine terrane, NE Alaska: EOS (Transactions of the American Geophysical Union), v. 68, no. 16, p. 292.
- Miller, B.M., and 8 others, 1975, Geological estimates of undiscovered recoverable oil and gas resources in the United States: U.S. Geological Survey Circular 725, 78 p.
- Miller, D.J., 1957, Geology of the southeastern part of the Robinson Mountains, Yakataga District, Alaska: U.S. Geological Survey Oil and Gas Investigations Map M–187, 2 sheets, scale 1:63,360.
- Miller, D.J., 1961, Geology of the Lituya district, Gulf of Alaska Tertiary province: U.S. Geological Survey Open-File Report 61–100, 1 sheet.
- Miller, D.J., Payne, T.G., and Gryc, G., 1959, Geology of possible petroleum provinces in Alaska, with annotated bibliography by E. H. Cobb: U.S. Geological Survey Bulletin 1094, 131 p.

- Miller, D.M., Langmuir, C.H., Goldstein, S.L., and Franks, A.L., 1992, The importance of parental magma composition to calc-alkaline and tholeitic evolution: Evidence from Umnak Island in the Aleutians: Journal of Geophysical Research, v. 97, p. 321–343.
- Miller, D.J., and Plafker, George, 1971, Geologic map of the Yakataga district, Gulf of Alaska Tertiary province, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–610, scale 1:125,000.
- Miller, E.L., 1987, Dismemberment of the Brooks Range orogenic belt during middle Cretaceous extension [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 432.
- Miller, E.L., and Hudson, T.L., 1991, Mid-Cretaceous extensional fragmentation of a Jurassic Early Cretaceous compressional orogen, Alaska: Tectonics, v. 10, p. 781–796.
- Miller, E.L., and Hudson, T., 1993, Reply to comment on "Mid-Cretaceous extensional fragmentation of a Jurassic Early Cretaceous compressional orogen, Alaska": Tectonics, v. 12, p. 1082–1086.
- Miller, E.L., Calvert, A.T., and Little, T.A., 1992, Strain-collapsed metamorphic isograds in a sillimanite gneiss dome, Seward Peninsula, Alaska: Geology, v. 20, p. 487–490.
- Miller, E.L., Christiansen, P.P., and Little, T.A., 1990, Structural studies in the southernmost Brooks Range, Alaska [abs.]: Geological Association of Canada, Mineralogical Association of Canada Annual Meeting, Programs with Abstracts, v. 15, p. A89.
- Miller, E.L., Holdsworth, B.K., Whiteford, W.B., and Rodgers, D., 1984, Stratigraphy and structure of the Schoonover Sequence, northwestern Nevada; Implications for Paleozoic plate-margin tectonics: Geological Society of America Bulletin, v. 95, p. 1063–1076.
- Miller, E.L., Law, R.D., and Little, T.A., 1990, Evidence for extensional deformation on the southern nank of the Brooks Range in the Florence Creek area, Wiseman A-3 quadrangle, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 22, p. A183.
- Miller, M.L., 1984, Geology of the Resurrection Peninsula, *in* Winkler, G.R., Miller, M.L., Hoekzema, R.B., and Dumoulin, J.A., Guide to the bedrock geology of a traverse of the Chugach Mountains from Anchorage to Cape Resurrection: Anchorage, Alaska Geological Society, p. 25–40.
- Miller, M.L., and Angeloni, L.M., 1985, Ophiolitic rocks of the Iditarod quadrangle, west-central Alaska [abs] American Association of Petroleum Geologists Bulletin, v. 69, no. 4, p. 669–670.
- Miller, M.L., and Bundtzen, T.K., 1985, Metamorphic rocks in the western Iditarod quadrangle, west-central Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 24–28.
- Miller, M. L., and Bundtzen, T. K., 1988, Right-lateral oflfset solution for the Iditarod-Nixon Fork fault, western Alaska, *in* Galloway, J. P., and Hamilton, T. D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 99–103.
- Miller, M.L., Bradshaw, J.Y., Kimbrough, T., Stern, T.W., and Bundtzen, T.K., 1991, Isotopic evidence for early Proterozoic age of the Idono Complex, west-central Alaska: Journal of Geology, v. 99, p. 209–223.
- Miller, M.L., Dumoulin, J.A., and Nelson, S.W., 1984, A transect of metamorphic rocks along the Copper River, Cordova and Valdez quadrangles, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geologicai Survey Circular 939, p. 52–57.
- Miller, M.M., 1987, Dispersed remnants of a northeast Pacific fringing arc: Upper Paleozoic terranes of Permian McCloud faunal affinity, western U.S.: Tectonics, v. 6, p. 807–830.
- Miller, R.D., 1973, Gastineau Channel Formation; A composite giaciomarine deposit near Juneau, Alaska: U.S. Geological Survey Bulletin 1394–C, 20 p.
- Miller, T.P., 1970, Preliminary correlation of Mesozoic plutonic rocks in Bering Sea region [abs.], *in* International Arctic Geology Symposium, 2nd, San Francisco, Abstracts and Papers: American Association of Petroleum Geologists Bulletin, v. 54, no. 12, p. 2496.
- Miller, T.P., 1971, Petrology of the plutonic rocks of west-central Alaska: U.S. Geological Survey Open-File Report 71–210, 3 plates, 136 p.
- Miller, T.P., 1972, Potassium-rich alkaline intrusive rocks of west-central Alaska: Geological Society of America Bulletin, v. 83, p. 2111–2128.
- Miller, T.P., 1973, Distribution and chemical analyses of thermal springs in Alaska: U.S. Geological Survey Open-File Report 73–570, scale 1:2,500,000.

- Miller, T.P., 1976, Hardrock uranium potential in Alaska: U.S. Geological Survey Open-Report 76–246, 7 p.
- Miller, T.P., 1985, Petrologic character of the plutonic rocks of the Yukon Koyukuk basin and its borderland [abs.]: EOS (Transactions of the American Geophysical Union), v. 66, p. 1102.
- Miller, T.P., 1989, Contrasting plutonic rock suites of the Yukon Koyukuk basin and the Ruby geanticline, Alaska: Journal of Geophysical Research, v. 94, no. B 11, p. 15969–15987.
- Miller, T.P., and Anderson, L.A., 1969, Airborne radioactivity and total intensity magnetic survey of the southern Kobuk-Selawik lowland, western Alaska: U.S. Geological Survey Open-File Report [69–170], scale 1:63,360.
- Miller, T. P., and Barnes, I., 1976, Potential for geothermal-energy development in Alaska; Summary, *in* Halbouty, M. T., Mahar, J. C., and Lian, H. M., eds., Circum-Pacific energy and mineral resources: American Association Petroleum Geologists Memoir 25, p. 149–153.
- Miller, T. P., and Bunker, C. M., 1976, A reconnaissance study of the uranium and thorium content of plutonic rocks of the southeastern Seward Peninsula: U.S. Geological Survey Journal of Research, v. 4, no. 1, p. 57–74.
- Miller, T. P., and Elliott, R. L., 1969, Metalliferous deposits near Granite Mountain, eastern Seward Peninsula, Alaska: U.S. Geological Survey Circular 614, 19 p.
- Miller, T.P., and Lanphere, M.A., 1981, K-Ar age measurements on obsidian from the Little Indian River locality in interior Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The U.S. Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B39–B42.
- Miller, T.P., and Smith, R.L., 1977, Spectacular mobility of ash flows around Aniakchak and Fisher calderas, Alaska: Geology, v. 5, p. 173–176.
- Miller, T.P., and Smith, R.L., 1983, Calderas of the eastern Aleutian arc [abs.]: EOS (Transactions of the American Geophysical Union), v. 64, no. 45, p. 877.
- Miller, T.P., and Smith, R.L., 1984, Calderas of the eastern Aleutian arc: EOS (Transactions of the American Geophysical Union), v. 64, no. 45, p. 87.
- Miller, T.P., and Smith, R.L., 1987, Late Quaternary caldera-forming eruptions in the eastern Aleutian arc, Alaska: Geology, v. 15, p. 434–438.
- Miller, T.P., Barnes, I, and Patton, W.W., Jr., 1975, Geological setting and chemical characteristics of hot springs in west-central Alaska: U.S. Geological Survey Journal of Research, v. 3, no. 2, p. 149–162.
- Miller, T.P., Grybeck, D.L., Elliott, R.L., and Hudson, T., 1972, Preliminary geologic map of the eastern Solomon and southeastern Bendeleben quadrangles, eastern Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 72–256, 11 p., 2 sheets, scale 1:250,000.
- Miller, T.P., Hoover, D.B., Smith, R.L., and Long, C., 1978, Geothermal exploration on Adak Island, Alaska; A case history [abs.]: American Association Petroleum Geologists Bulletin, v. 62, no. 7, p. 1227.
- Miller, T.P., Moll, E.J., and Patton, W.W., Jr., 1980, Uranium- and thorium-rich volcanic rocks of the Sischu Creek area, Medfra quadrangle, Alaska: U.S. Geological Survey, Open-File Report 80–803, 9 p.
- Miller, T.P., Patton, W.W., Jr., and Lanphere, M. A., 1966, Preliminary report on a plutonic belt in west-central Alaska: U.S. Geological Survey Professional Paper 550–D, p. D158–D162.
- Milne, A.R., 1966, A seismic refraction measurement in the Beaufort Sea: Seismological Society of America Bulletin, v. 56, no. 3, p. 775–779.
- Minster, B.J. and Jordan, T.H., 1978, Present-day plate motions: Journal of Geophysical Research, v. 83, p. 5331–5354.
- Minster, J.B., Jordan, T.H., Molnar, P., and Haines, E., 1974, Numerical modelling of instantaneous plate tectonics: Journal of Royal Astronomical Society, v. 36, p. 541–576.
- Mitchell, P.A., 1979, Geology of the Hope-Sunrise (gold) mining district, north-central Kenai Peninsula, Alaska :Palo Alto, Calif., Stanford University, Master's thesis, 123 p.
- Mitchell, P.A., Silberman, M.L., and O'Neil, J.R., 1981, Genesis of gold vein mineralization in an Upper Cretaceous turbidite sequence, Hope-Sunrise district, southern Alaska: U.S. Geological Survey Open-File Report 81–103, 18 p.
- Mitchum, R.M., Jr., Vail, P.R., and Thompson, S., 111, 1977, Seismic stratigraphy and global changes of sea level; Part 2, The depositional sequence as a basic unit for stratigraphic analysis, *in* Payton, C.E., ed., Seismic stratigraphy; Applications to hydrocarbon exploration: American Association of Petroleum Geologists Memoir 26, p. 53–62.

- Miyaoka, R.T., and Dover, J.H., 1985, Preliminary study of shear sense in mylonites, eastern Ray Mountains, Tanana quadrangle, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 29–32.
- Miyaoka, R.T., and Dover, J.H., 1990, Shear sense in mylonites, and implications for transport of the Rampart assemblage (Tozitna terrane), Tanana quadrangle, east-central Alaska, *in* Dover, J.H., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1989: U.S. Geological Survey Bulletin 1946, p. 51–64.
- Miyashiro, A., 1974, Volcanic rock series in island arcs and active continental margins: American Journal of Science, v. 274, no. 4, p. 321–355.
- Moffit, F.H., 1913, Geology of the Nome and Grand Central quadrangles, Alaska: U.S. Geological Survey Bulletin 533, 140 p.
- Moffit, F.H., and Fellows, R.E., 1950, Copper deposits of the Prince William Sound district, Alaska: U.S. Geological Survey Bulletin 963–B, p. 47–80.
- Moffit, F.H., 1938, Geology of the Chitina Valley and adjacent area, Alaska: U.S. Geological Survey Bulletin 894, 137 p.
- Mogi, K., 1969, Relationship between the occurrence of great earthquakes and tectonic structures: Institute of the University of Tokyo Bulletin of Earthquake Research, v. 47, p. 429–451.
- Molenaar, C.M., 1981, Depositional history and seismic stratigraphy of Lower Cretaceous rocks, National Petroleum Reserve in Alaska and adjacent areas: U.S. Geological Survey Open-File Report 81–1084, 42 p.
- Molenaar, C.M., 1982, Umiat field; An oil accumulation in a thrust–faulted anticline, North Slope of Alaska, *in* Powers, R.B., ed., Geologic studies of the Cordilleran thrust belt: Denver, Colo., Rocky Mountain Association of Geologists, p. 537–548.
- Molenaar, C.M., 1983, Depositional relations of Cretaceous and lower Tertiary rocks, northeastern Alaska: American Association of Petroleum Geologists Bulletin, v. 67, no. 7, p. 1066–1080.
- Molenaar, C.M., 1985, Subsurface correlations and depositional history of the Nanshuk Group and related strata, North Slope, Alaska, *in* Huffman, A.C., Jr., ed., Geology of the Nanushuk Group and related rocks, North Slope, Alaska: U.S. Geological Survey Bulletin 1614, p. 37–59.
- Molenaar, C.M., 1988, Depositional history and seismic stratigraphy of Lower Cretaceous rocks in the National Petroleum Reserve in Alaska and adjacent areas, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 593–621.
- Molenaar, C.M., Bird, K.J., and Collett, T.S., 1986, Regional correlation sections across the North Slope of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1907.
- Molenaar, C.M., Bird, K.J., and Kirk, A.R., 1987 Cretaceous and Tertiary stratigraphy of northeastern Alaska, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Los Angeles, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Anchorage, Alaska Geological Society, v. 1, p. 513–528.
- Molenaar, C.M., Egbert, R.M., and Krystinik, L.F., 1988, Depositional facies, petrography, and reservoir potential of the Fortress Mountain Formation (Lower Cretaceous), central North Slope, Alaska, *in* Gryc, G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 257–280.
- Molenaar, C.M., Kirk, A.R., Magoon, L.B., and Huffman, A.C., 1984, Twentytwo measured sections of Cretaceous-Lower Tertiary rocks, eastern North Slope, Alaska: U.S. Geological Survey Open-File Report 84–695, 19 p.
- Moll, E.J., and Arth, J.G., 1985, Sr and Nd isotopes from Late Cretaceous-early Tertiary volcanic fields in western Alaska; Evidence against old radiogenic continental crust under the Yukon-Koyukuk basin [abs.]: EOS (Transactions of the American Geophysical Union), v. 66, no. 46, p. 1102.
- Moll, E.J., and Arth, J.G., 1985, Sr and Nd isotopes from Late Cretaceous-early Tertiary volcanic fields in western Alaska; Evidence against old radiogenic continental crust under the Yukon-Koyukuk basin: EOS (Transactions of the American Geophysical Union), v. 66, no. 46, p. 1102.
- Moll, E.J., and Patton, W.W., Jr., 1982, Preliminary report on the Late Cretaceous-early Tertiary volcanic and related plutonic rocks in western Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 73–76.
- Moll, E.J., and Patton, W.W., Jr., 1983, Late Cretaceous early Tertiary calc-alkalic volcanic rocks of western Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 406.

- Moll, E.J., Silberman, M.L., and Patton, W.W., Jr., 1981, Chemistry, mineralogy, and K-Ar ages of igneous and metamorphic rocks of the Medfra quadrangle, Alaska: U.S. Geological Survey Open-File Report 80–81–C, 2 sheets, scale 1:250,000.
- Moll-Stalcup, E.J., 1987, The petrology and Sr and Nd isotopic characteristics of five Late Cretaceous-early Tertiary volcanic helds in western Alaska: Palo Alto, Calif., Stanford University, Ph.D. dissertation, 310 p.
- Moll-Stalcup, E., 1990, Latest Cretaceous and Cenozoic magmatism in mainland Alaska: U.S. Geological Survey Open-File Report 90–84, 80 p.
- Moll-Stalcup, E.J., and Arth, J.G., 1989, The nature of the crust in the YukonKoyukuk province as inferred from the chemical and isotopic composition of five Late Cretaceous and early Tertiary volcanic fields in western Alaska: Journal of Geophysical Reserach, v. 94, p. 15,989–16,020.
- Moll-Stalcup, E.J., and Arth, J.G., 1991, The petrology and Sr and Nd isotopic composition of the Blackburn Hills volcanic field, western Alaska: Geochimica et Cosmochimica Acta, v. 55, p. 3753–3776.
- Moll-Stalcup, E.J. and Patton, W.W., Jr., 1992, Geologic map of the Blackburn Hills volcanic field, western Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–2199, 1:63,360 scale.
- Molnia, B.F., 1986, Glacial history of the northeastern Gulf of Alaska; A synthesis, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 219–235.
- Monaghan, M.C., Klein, J., and Measures, C.I., 1988, The origin of ¹⁰Be in island-arc volcanic rocks: Earth and Planetary Science Letters, v. 89, p. 288–298.
- Monger, J.W.H., 1977, Upper Paleozoic rocks of the western Canadian Cordillera and their bearing on Cordilleran evolution: Canadian Journal of Earth Sciences, v. 14, p. 1832–1859.
- Monger, J.W.H., 1989, Overview of Cordilleran geology, *in* Ricketts, B. D., ed., Western Canada sedimentary basin: A case history: Calgary, Canadian Society of Petroleum Geologists, p. 9–32.
- Monger, J.W.H., and Berg, H.C., 1987, Lithotectonic terrane map of western Canada and southeastern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1874–B, 12 p., scale 1:2,500,000.
- Monger, J.W.H., and Irving, E.M., 1980, Northward displacement of northcentral British Columbia: Nature, v. 285, p. 289–294.
- Monger, J.W.H., and nine others, 1991, Cordilleran terranes, *in* Gabrielse, H., and Yorath, C.J., eds., Geology of the Cordilleran orogen of Canada: Geological Survey of Canada, Geology of Canada, no. 4, p. 281–327.
- Monger, J.W.H., and Price, R.A., 1979, Geodynamic evolution of the Canadian Cordillera; Progress and problems: Canadian Journal of Earth Sciences, v. 16, p. 770–791.
- Monger, J.W.H., and Ross, C.A., 1971, Distribution of Fusulinaceans in the western Canadian Cordillera: Canadian Journal of Earth Sciences, v. 8, p. 259–278.
- Monger, J.W.H., and Ross, C.A., 1979, Upper Paleozoic volcanosedimentary assemblages of the western North American Cordillera, *in* Neuvieme Congres International de Stratigraphie et de geologie du Carbonifere, v. 3: Carbondale, Southern Illinois University Press, p. 219–228.
- Monger, J.W.H., Price, R.A., and Tempelman-Kluit, D.J., 1982, Tectonic accretion and the origin of the two major metamorphic and plutonic belts in the Canadian Cordillera: Geology, v. 10, p. 7075.
- Monger, J.W.H., Price, R.A., and Tempelman-Kluit, D.J., 1982, Reply to Comment on 'Tectonic accretion and the origin of the two major metamorphic and plutonic welts in the Canadian Cordillera': Geology, v. 1 l, p. 428–429.
- Monger, J.W.H., Souther, J.G., and Gabrielse, H., 1972, Evolution of the Canadian Cordillera; A plate tectonic model: American Journal of Science, v. 272, p. 577–602.
- Moore J.C., and Allwardt, A., 1980, Progressive deformation of a Tertiary trench slope, Kodiak Islands, Alaska: Journal of Geophysical Research, v. 85, p. 4741–4756.
- Moore, D.W., Young, L.E., Modene, J.S., and Plahuta, J.T., 1986, Geologic setting and genesis of the Red Dog zinc-lead-silver deposit, western Brooks Range, Alaska: Economic Geology, v. 81, p. 1696–1727.
- Moore, G.W., 1967, Preliminary geologic map of the Kodiak Islands and vicinity, Alaska: U.S. Geological Survey Open-File Report 67–271, scale 1:250,000.
- Moore, G.W., 1969, New Formations on Kodiak and adjacent islands, Alaska, *in* Cohee, G.V., Bates, R.G., and Wright, W.B., compilers, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1967: U.S. Geological Survey Bulletin 1274–A, p. A27–A35.

- Moore, J.C., 1973, Cretaceous continental margin sedimentation, southwestern Alaska: Geological Society of America Bulletin, v. 84, p. 595–613.
- Moore, J.C., 1973, Complex deformation of Cretaceous trench deposits, southwestern Alaska: Geological Society of America Bulletin, v. 84, p. 2005–2020.
- Moore, J.C., 1974, The ancient continental margin of Alaska, *in* Burk, C. S., and Drake, C.I., eds., The geology of continental margins: New York, Springer-Verlag, p. 811–816.
- Moore, J.C., 1974, Geologic and structural map of the Sanak Islands, southwestern Alaska: U.S. Geological Survey Miscellaneous Investigations Map I–817, scale 1:63,360.
- Moore, J.C., 1974, Geologic and structural map of the Outer Shumagin Islands, southwestern Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–815, scale 1:63,360.
- Moore, J.C., and Connelly, W., 1977, Mesozoic tectonics of the southern Alaska margin, *in* Taiwani, M., and Pitman, W.C., III, eds., Island arcs, deep sea trenches, and back-arc basins: American Geophysical Union Maurine Ewing Series, v. 1, p. 71–82.
- Moore, J.C., and Connelly, W., 1979, Tectonic history of the continental margin of southwestern Alaska: Late Triassic to earliest Tertiary, *in* Sisson, A., ed., The relationship of plate tectonics to Alaskan geology and resources: (Proceedings, Alaska Geological Society Symposium, 6th, 1977, Anchorage): Anchorage, Alaska Geological Society, p. H1–H29.
- Moore, J.G., and Evans, B.W., 1967, The role of olivine in the crystallization of the prehistoric Makaopuhi theoleiite lava lake, Hawaii: Contributions to Mineralogy and Petrology, v. 15, p. 202–223.
- Moore, J.C., and eleven others, 1991, EDGE deep seismic reflection transect of the eastern Aleutian arc-trench layered lower crust reveals underplating and continental growth: Geology, v. 19, p. 420–424.
- Moore, J.C., and five others, 1983, Paleogene evolution of the Kodiak Islands, Alaska; Consequences of ridge-trench interaction in a more southerly latitude: Tectonics, v. 2, no. 3, p. 265–293.
- Moore, J.C., and Wheeler, R.L., 1978, Structural fabric of a melange, Kodiak Islands, Alaska: American Journal of Science, v. 278, p. 739–765.
- Moore, J.C., Byrne, T., Plumley, P.W., Reid, M., Gibbons, H., and Coe, R.S., 1983, Paleogene evolution of the Kodiak Islands, Alaska: Consequences of ridge-trench interaction in a more southerly latitude: Tectonics, v. 2. p. 265–293.
- Moore, T.E., 1986, Stratigraphic framework and tectonic implications of preMississippian rocks, northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 159.
- Moore, T.E., 1987, Geochemistry and tectonic setting of some volcanic rocks of the Franklinian assemblage, central and eastern Brooks Range, *in* Tailleur, I.,and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mine"alogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 691–710.
- Moore, T.E., 1987, Geochemical and tectonic affinity of basalts from the Copter Peak and Ipnavik River allochthons, Brooks Range, Alaska[abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 434.
- Moore, T.E., 1992, The Arctic Alaska superterrane, *in* Bradley, D.C., and Dusel-Bacon, C., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1991: U.S. Geological Survey Bulletin 2041, p. 238–244.
- Moore, T.E., Aleinikoff, J.N., and Walter, M., 1993, Middle-Jurassie U-Pb crystallization age for Siniktanneyak Mountain ophiolite, Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v.25, no.5, p. 124.
- Moore, T.E., and Churkin, M., Jr., 1984, Ordovician and Silurian graptolite discoveries from the Neruokpuk Formation (sensu lato), northeastern and central Brooks Range, Alaska: Paleozoic Geology of Alaska and Northwestern Canada Newsletter, no. 1, p. 21–23.
- Moore, T.E., and Mull, C.G., 1989, Geology of the Brooks Range and North Slope, *in* Nokleberg, W.J., and Fisher, M.A., eds., Alaskan geological and geophysical transect, Valdez to Coldfoot, June 24 July 5, 1989, 28th International Geological Congress Field Trip Guidebook T104, Washington: American Geophysical Union, p. 107–131.
- Moore, T.E., and Nilsen, T.H., 1984, Regional sedimentological vanations in the Upper Devoninn and Lower Mississippian(?) Kanayut Conglomerate, Brooks Range, Alaska: Sedimentary Geology, v. 38, p. 464–498.
- Moore, T.E., and Nokleberg, W.J., 1988, Stratigraphy, sedimentology, and structure of the Wickersham terrane in the Cache Mountain area, eastcentral Alaska, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 75–80.
- Moore, T.E., and Wallace, W.K., 1985, Submarine-fan facies of the Kuskokwim Group, Cairn Mountain area, southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 371.

- Moore, T.E., Brosgé, W.P., Churkin, M., Jr., and Wallace, W.K., 1985, Pre-Mississippian accreted terranes of northeastern Brooks Range, Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, p. 670.
- Moore, T.E., Nilsen, T.H., Grantz, A., and Tailleur, I.L., 1984, Parautochthonous Mississippian marine and non-marine strata, Lisburne Peninsula, Alaska, *in* Reed, K.M., and Bartseh-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 17–21.
- Moore, T.E., Wallace, W.K., and Jones, D.L., 1991, TACT geologic studies in the Brooks Range: Preliminary results and implications for crustal structure [abs.]: Geological Society of America Abstracts with Programs, v. 23, no. 2, p. 80.
- Moore, T.E., Wallace, W.K., Bird, K.J., Karl, S.M., Mull, C.G., and Dillon, J.T., 1992, Stratigraphy. structure, and geologic synthesis of northern Alaska: U.S. Geological Survey Open-File Report 92–330, 183 p., scale 1:2,500,000.
- Moore, T.E., Whitney, J.W., and Wallace, W.K., 1985, Cenozoic northvergent tectonism in northeastern Alaska: Indentor tectonics in Alaska [abs.]: Eos (American Geophysical Union Transactions), v. 66, p. 862.
- Moore, T.E., Wallace, W.K., Bird, K.J., Karl, S.M., Mull, G. and Dillon, J.T., 1994, Geology of northern Alaska, *in* Plafker, G. and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. E1, p. 311–366.
- Moore, T.E., Wallace, Mull, C.G., Karl, S.M. and Bird, J.K., 1994, Generalized geologic map and sections for northern Alaska, *in* Plafker, G. and Berg, H.C., eds., The Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G1, pl. 16, scale 1:2,500,000.
- Morack, J.L., and Rogers, J.C., 1981, Seismic evidence of shallow permafrost beneath islands in the Beaufort Sea, Alaska: Arctic, v. 34, no. 2, p. 169–174.
- Morack, J.L., and Rogers, J.C., 1982, Marine seismic refraction measurements of near-shore subsea permafrost, *in* French, H.M., ed., Proceedings, Fourth Canadian Permafrost Conference, Calgary, Alberta, March 2-6, 1981: Ottawa, National Research Council of Canada, p. 249–255.
- Morack, J.L., and Rogers, J.C., 1984, Acoustic velocities of nearshore materials in the Alaskan Beaufort and Chukchi Seas, *in* Barnes, P.W., Reimnitz, E., and Schell, D.M., eds., The Alaskan Beaufort Sea; Ecosystems and environments: Orlando, Florida, Academic Press, p. 259–274.
- Morack, J.L., and Rogers, J.C., 1981, Beaufort and Chukchi Sea coast permafrost studies, *in* Environmental assessment of the Alaskan Continental Shelf, Annual reports of principal investigators for the year ending March 1981; v. 8, Hazards and data management: U.S. Department of Commerce and U.S. Department of the Interior, p. 293–332.
- Morelli, Carlo, Gantar, C., Honkasalo, Tauno, McConnell, R.K., Tanner, J.G., Szabo, Bela, Uotila, V.A., and Whalen, C.T., 1974, The international gravity standardization net 1971 (I.G.S.N. 71): Paris Bureau Central de l'Association Internationale de Geodesie, Special Publication, 4, 174 p.
- Morgan, W.J., 1972, Plate motions and deep mantle convection, *in* Shagam, R., and others, eds., Studies in Earth and space sciences: Geological Society of America Memoir 132, p. 7–22.
- Morgenson, L., Vallier, T.L., and Lamothe, P., 1985, Chemical data from Tertiary igneous rocks, Atka and Amlia Islands, central Aleutian Island arc, Alaska: U.S. Geological Survey Open-File Report 85–741, 30 p.
- Morgridge, D.L., and Smith, W.B., Jr., 1972, Geology and discovery of Prudhoe Bay field, eastern Arctic Slope, Alaska, *in* King, R.E., ed., Stratigraphic oil and gas fields; Classification, exploration methods, and case histories: American Association of Petroleum Geologists Memoir 16, p. 489–501.
- Morley, J.J., and Dworetzky, B.A., 1991, Evolving Pliocene-Pleistocene climate A North Pacific perspective: Quaternary Science Reviews, v. 10, p. 225–237.
- Morris, J.D., and Hart, S.R., 1983, Isotopic and incompatible element constraints on the genesis of island arc volcanics from Cold Bay and Amak Island, Aleutians, and implications for mantle structure: Geochimica et Cosmochimica Acta, v. 47, p. 2015–2030.
- Morris, J.D., and Hart, S.R., 1986, Reply to Comment *on* 'Isotopic and incompatible element constraints on the genesis of island-arc volcanics from Cold Bay and Amak Island, Aleutians, and implications for mantle structure': Geochimica et Cosmochimica Acta, v. 50, p. 483–487.
- Morris, J.D., Leeman, W.P., and Tera, F., 1990, The subducted component in island arc lavas: Constraints from Be isotopes and B-Be systematics: Nature, v. 344, p. 31–35.
- Morris, J., and 5 others, 1989, Sediment recycling at convergent margins; Constraints from the cosmogenic isotope 10Be, *in* Hart, S.R. and Gulen, L., eds., Crust/mantle recycling at subduction zones: Dordrecht, Kluwer Academic Publishers, NATO Advanced Study Institutes Series C, Mathematical and Physical Sciences, v. 258, p. 81–88.

- Morris, R.H., 1970, A preliminary study of relict marine terraces of the western Aleutian Islands, Alaska: U.S. Geological Survey Report; National Technical Information Service, U.S. Department of Commerce, Springfield, Va., NTIS-USGS-474-62, 21 p.
- Morris, R.H., and Bucknam, R.C., 1972, Geomorphic evidence of late Holocene vertical stability in the Aleutian Islands, Alaska: Seismology Society America Bulletin, v. 62, no. 6, p. 1356–1375.
- Morrison, G.W., 1980, Characteristics and tectonic setting of the shoshonite rock association: Lithos, v. 13, p. 97–108.
- Mortensen, J.K., 1983, Age and evolution of the Yukon-Tanana terrane, southeastern Yu;kon Territory: Santa Barbara, University of California, Ph.D. dissertation, 155 p.
- Mortensen, J.K., 1983, U-Pb and Rb-Sr evidence for the age and timing of tectonism of the Yukon-Tanana terrane in south-eastern Yukon Territory [abs.]: Geological Association of Canada Program with Abstracts Joint Annual Meeting, p. A49.
- Mortensen, J.K., 1988, Significance of episodic magmatism in Yukon-Tanana terrane, Yukon and Alaska [abs.]: Geological Society of America Abstracts with Programs, v.20, p.A111
- Mortensen, J.K., 1992, Pre-mid Mesozoic tectonic evolution of the YukonTanana terrane, Yukon and Alaska: Tectonics, v. 11, p. 836–853.
- Mortensen, J. K., and Godwin, C.I., 1982, Volcanogenic massive sulfide deposits associated with highly alkaline rift volcanics in the southeastern Yukon Territory: Economic Geology and the Bulletin of the Society of Economic Geologists, v. 77, no. 5, p. 1225–1230.
- Mortensen, J.K., and Jilson, G.A., 1985, Evolution of the Yukon Tanana terrane; Evidence from southeastern Yukon Territory: Geology v.13, no. 1 l, p. 806–810.
- Motyka, R.J., 1983, Geochemical and isotopic studies of waters and gases from the Makushin geothermal area, Unalaska Island, Alaska: Geothermal Research Council Transactions, v. 7, p. 103–108.
- Motyka, R.J., Forbes, R.B., and Moorman, M., 1980, Geochemistry of Pilgrim Springs thermal waters, *in* Turner, D.L., and Forbes, R.B. eds., A geological and geophysical study of the geothermal energy potential of Pilgrim Springs, Alaska: Fairbanks, University of Alaska Geophysical Institute Report UAG R–271, p. 43–52.
- Motyka, R.J., Moorman, M.A., and Liss, S.A., 1981, Assessment of thermal spring sites, Aleutian arc, Atka Island to Becharof Lake; Preliminary results and evaluation: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 144, 173 p.
- Motyka, R.J., Moorman, M.A., and Reeder, J.W., 1980, Assessment of thermal spring sites in southern southeastern Alaska; Preliminary results and evaluation: Fairbanks, Alaska Division Geological and Geophysical Surveys Open-File Report 127, 72 p.
- Muffler, L.J.P., 1967, Stratigraphy of the Keku Islets and neighboring parts of Kuiu and Kupreanof Islands, southeastern Alaska: U.S. Geological Survey Bulletin 1241–C, p. C1–C52.
- Muir, J., 1883, Botanical notes on Alaska, *in* Cruise of the Revenue Steamer *Corwin* in Alaska and northwestern Arctic Ocean in 1881: Washington, D.C., U.S. Treasury Department, p. 47–53.
- Mull, C.G., 1979, Nanushuk Group deposition and the late Mesozoic structural evolution of the central and western Brooks Range and Arctic Slope, *in* Ahlbrandt, T. S., ed., Preliminary geologic, petrologic, and paleontologic results of the Nanushuk Group rocks, North Slope, Alaska: U.S. Geological Survey Circular 794, p. 5–13.
- Mull, C.G., 1980, Comment *on* "Collision-deformed Paleozoic continental margin, western Brooks Range, Alaska": Geology, v. 8, p. 361–362.
- Mull, C.G., 1982, The tectonic evolution and structural style of the Brooks Range, Alaska: An illustrated summary, *in* Powers, R.B., ed., Geological studies of the Cordilleran thrust belt, Volume 1: Denver, Colo., Rocky Mountain Association of Geologists, p. 1–45.
- Mull, C.G., 1985, Cretaceous tectonics, depositional cycles, and the Nanushuk Group, Brooks Range and Arctic Slope, Alaska, *in* Huffman, A.C., Jr., ed., Geology of the Nanushuk Group and related rocks, North Slope, Alaska: U.S. Geological Survey Bulletin 1614, p. 7–36.
- Mull, C.G., 1987, Kemik Sandstone, Arctic National Wildlife Refuge, northeastern Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 405–431.
- Mull, C.G., 1989, Generalized stratigraphy and structure of the Brooks Range and Arctic Slope, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 1, p. 31–46.

- Mull, C.G., Adams, K.E., and Dillon, J.T., 1987, Stratigraphy and structure of the Doonerak fenster and Endicott Mountains allochthon, central Brooks Range, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 663–679.
- Mull, C.G., and Kososki, B.A., 1977, Hydrocarbon assessment of the Arctic National Wildlife Range, eastern Arctic Slope, Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, B20–B22.
- Mull, C.G., and Mangus, M.D., 1972, Itkilyariak Formation: New Mississippian formation of Endicott Group, Arctic Slope of Alaska: American Association of Petroleum Geologists Bulletin, v. 56, p. 1364–1369.
- Mull, C.G., and Nelson, S.W., 1986, Anomalous thermal maturity data from the Orca Group (Paleocene and Eocene), Katalla–Kayak Island area, *in* BartschWinkler, S., and Reed, K.M., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 50–55.
- Mull, C.G., and Tailleur, I.L., 1977, Sadlerochit(?) Group in the Schwatka Mountains, south-central Brooks Range, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 75 I–B, p. B27–B29.
- Mull, C.G., and 6 others, 1987, Stratigraphy and structural setting of the Picnic Creek allochthon, Killik River quadrangle, central Brooks Range Alaska: A summary, *in* Tailleur, I., and Weimer, P., eds.. Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 649–662.
- Mull, C.G., Roeder, D.H., Tailleur, I.L., Pessel, G.H., Grantz, A., and May, S.D., 1987, Geologic sections and maps across Brooks Range and Arctic Slope to Beaufort Sea: Geological Society of America Map and Chart Series MC–28S, scale 1:500,000.
- Mull, C.G., Tailleur, I.L., Mayfield, C.F., and Pessel, G.H., 1976, New structural and stratigraphic interpretations, central and western Brooks Range and Arctic Slope, *in* Cobb, E.H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U.S. Geological Survey Circular 733, p. 24–26.
- Mull, C.G., Tailleur, I. L., Mayfield, C.F., Ellersieck, I., and Curtis, S., 1982, New upper Paleozoic and lower Mesozoic stratigraphic units, central and western Brooks Range, Alaska: American Association of Petroleum Geologists Bulletin, v. 66, no. 3, p. 348–362.
- Muller, J.E., 1967, Kluane Lake area, Yukon Territory: Geological Survey of Canada Memoir 340, 137 p.
- Muller, J. E., 1977, Evolution of the Pacific margin, Vancouver Island, and adjacent regions: Canadian Journal of Earth Sciences, v. 14, p. 2062–2085.
- Muller, J.E., 1977, Geology of Vancouver Island: Geological Survey of Canada Open-File Map 463, 1 sheet, scale 1:250,000
- Muller, J.E., Northcote, K.E., and Carlisle, D., 1974, Geology and mineral deposits of Alert-Cape Scott map area, Vancouver Island, British Columbia: Canadian Geological Survey Paper 74–8, 77 p.
- Muller, S.W., 1945, Permafrost or permanently frozen ground and related engineering problems: U.S. Engineers Office, Strategic Engineering Study Special Report 62, 136 p.; Reprinted in 1947, Ann Arbor, Michigan, J. W. Edwards, Inc.
- Mullins, W.J., McQuat, J.F., and Rogers, R.K., 1984, The Alaska asbestos project; Part 1, Project review: Industrial Minerals, no. 199, p. 41.
- Murchey, B.L., Jones, D.L., Holdsworth, B.K., and Wardlaw, B.R., 1988 distribution patterns of facies, radiolarians, and conodonts in the Mississippian to Jurassic siliceous rocks of the north Brooks Range, Alaska, *in* Gryc G., ed., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399 p. 697–724.
- Murchey, B., and Harris, A.G., 1985, Devonian to Jurassic sedimentary rocks in the Angayucham Mountains of Alaska; Possible seamount or oceanic plateau deposits [abs.]: EOS (Transactions of the American Geophysical Union) v.66, no.46, p. 1102.
- Murphy, J.M., 1987, Early Cretaceous cessation of terrane accretion, northern Eek Mountains, southwestern Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 83–85.
- Murphy, J.M., 1989, Geology, sedimentary petrology, and tectonic synthesis of Early Cretaceous submarine fan deposits, northern Eek Mountains, southwest Alaska: Fairbanks, University of Alaska, Master's thesis, 118 p.

- Murphy, J.M., and Decker, J., 1985, The Goodnews terrane and Kuskokwim Group, Eek Mountains, southwest Alaska; Open marine to trench slope transition [abs.]: American Association of Petroleum Geologists, Pacific Section 60th Annual Meeting, Program and Abstracts, p. 57.
- Murphy, J.M., and Patton, W.W., Jr., 1988, Geologic setting and petrography of the phyllite and metagraywacke thrust panel, north-central Alaska, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016 p. 104–108.
- Murphy, J.M., Moore, T.E., Patton, W.W., Jr., and Saward, S.E., 1989, Stratigraphy of Cretaceous conglomerates, northeastern Koyukuk basin, Alaska: Unroofing of southeastern Brooks Range, Alaskan [abs.]: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 120.
- Mutti, E., and Ricci Lucchi, F.T., 1978, Turbidites of the northern Apennines— Introduction to facies analysis: International Geology Review, v. 20, p. 125–166.
- Mutti, E., and Ricci Lucchi, F., 1972, Le torbiditi dell' Appennino setentrionale; Introduzione all'analisi de facies (Turbidites of the northern Apennines; Introduction to facies analysis): Societa Geologica Italiana Memoire, v. 11, p. 161–199.
- Myers, J.D., 1988, Possible petrogenetic relations between low- and high-MgO Aleutian basalts: Geological Society of America Bulletin, v. 100, p. 1040–1053.
- Myers, J.D., and Frost, C.D., 1989, Trace and rare earth element constraints on the origin and evolution of Aleutian arc magmas: EOS (Transactions of the American Geophysical Union), v. 17, p. 721.
- Myers, J.D., and Marsh, B.D., 1981, Geology and petrogenesis of the Edgecumbe volcanic field, SE Alaska; The interaction of basalt and sialic crust: Contributions to Mineralogy and Petrology, v. 77, p. 272–287.
- Myers, J.D., and Marsh, B.D., 1987, Aleutian lead isotopic data; Additional evidence for the evolution of lithospheric plumbing systems: Geochimica et Cosmochimica Acta, v. 51, p. 1833–1842.
- Myers, J.D., and Singer, B.S., 1987, Seguam Island, central Aleutian Islands, Alaska; I, Geologic field relations: EOS (Transactions of the American Geophysical Union), v. 68, p. 1525.
- Myers, J.D., and Sinha, A.K., 1985, A detailed Pb isotopic study of crustal contamination/assimilation; The Edgecumbe volcanic field, SE Alaska: Geochimica et Cosmochimica Acta, v. 49, p. 1343–1355.
- Myers, J.D., Frost, C.D., and Angevine, C.L., 1986, A test of a quartz eclogite source for parental Aleutian magmas; A mass balance approach: Journal of Geology, v. 94, p. 811–828.
- Myers, J.D., Marsh, B.D., and Sinha, A.K., 1985, Strontium isotopic and selected trace element variations between two Aleutian volcanic centers (Adak and Atka); Implications for the development of arc volcanic plumbing systems: Contributions to Mineralogy and Petrology, v. 91, p. 221–234.
- Myers, J.D., Sinha, A.K., and Marsh, B.D., 1984, Assimilation of crustal material by basaltic magma; Strontium isotopic and trace element data from the Edgecumbe volcanic field, southeastern Alaska: Journal of Petrology, v.25, no. 1, p. 1–26.
- Myers, J.D., and Marsh, B.D., 1981, Geology and petrogenesis of the Edgecumbe volcanic field, southeast Alaska: the interaction of basalt and sialic crust: Contributions to Mineralogy and Petrology, v. 77, p. 272–287.
- Myers, J.D., Marsh, B.D., and Sinha, A.K., 1986, Geochemical and strontium isotopic characteristics of parental Aleutian arc magmas: evidence from the basaltic lavas of Atka: Contributions to Mineralogy and Petrology, v. 94, p. 1–11.
- Naeser, N.D., Westgate, J.A., Hughes, O.L., and Pewe, T.L., 1982, Fission-track ages of late Cenozoic distal tephra beds in the Yukon Territory and Alaska: Canadian Journal of Earth Sciences, v. 19, p. 2167–2178.
- Nakamura, E., Campbell, I.H., and Sun, S., 1985, The influence of subduction processes on the geochemistry of Japanese alkaline basalts: Nature, v. 316, p. 55–58.
- Nakamura, K., 1977, Volcanoes as possible indicators of tectonic stress orientation; Principle and proposal: Journal of Volcanology and Geothermal Research, v. 2, p. 1–16.
- Nakamura, K., and Uyeda, S., 1980, Stress gradient in arc-back arc regions and plate subduction: Journal of Geophysical Research, v. 85, p. 6419–6428.
- Nakamura, K., Jacob, K.H. and Davies, J.N., 1977, Volcanoes as possible indicators of tectonic stress orientation; Aleutians and Alaska: Pure and Applied Geophysics, v. 115, p. 87–112.
- Nakamura, Kazuaki, Plafker, George, Jacob, K.H., and Davies, J.N., 1980, A tectonic stress trajectory map of Alaska using information from volcanoes and faults: Bulletin of Earthquake Research Institute, v. 55, part 1, p. 89–100.

- Namson, J.S., and Wallace, W.K., 1986, A structural transect across the northeastern Brooks Range [abs.]: Geological Society of America Abstracts with Programs, v. 18, no. 2, p. 163.
- National Geophysical Data Center, 1986 Digital relief of the surface of the Earth, 5-min x 5-min gridded data: National Geophysical Data Center magnetic tape ETOPO-5, 1 reel.
- Nauman, C., Blakestad, R.A., Chipp, E.R., and Hoffman, B.L., 1980, The north Rank of the Alaska Range; a newly discovered volcanogenic massive sulfide belt [abs.]: Geological Association of Canada Program with Abstracts, v.5, p. 73.
- Neal, R.J., and Swanson, S.W., 1983, Petrology and geochemistry of Westdahl and Pogromni Volcanoes, Unimak Island, Alaska: EOS (Transactions of the American Geophysical Union), v. 64, p. 893.
- Neave, K.G., and Sellmann, P.V., 1984, Determining distribution patterns of ice-bonded permafrost in the U.S. Beaufort Sea from seismic data, *in* Barnes, P.W., Schell, D.M., and Reimnitz, E., eds., The Alaskan Beaufort Sea; Ecosystems and environments: Orlando, Florida, Academic Press, p. 237–258.
- Neave, K.G., and Sellmann, P.V., 1983, Seismic velocities and subsea permafrost in the Beaufort Sea, Alaska, *in* Permafrost, Proceedings, Fourth International Conference, Fairbanks, Alaska, July 1722, 1983: Washington, D.C., National Academy Press, p. 894–898.
- Neavel, R.C., 1981, Origin, petrography, and classification of coal, *in* Elliott, M.A., ed., Chemistry of coal utilization (second supplementary volume): New York, Wiley-Interscience, p. 91–158.
- Nelson, B.K., Nelson, S.W., and Till, A.B., 1989, Isotopic evidence of an Early Proterozoic crustal source for granites of the Brooks Range, northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. A105.
- Nelson, B.K., Nelson, S.W., and Till, A.B., 1993, Nd- and Sr-isotope evidence for Protozoic and Paleozoic crustal evolution in the Brooks Range, northern Alaska: Journal of Geology, v. 101, p 435–450.
- Nelson, F.E., and Outcalt, S.I., 1982, Anthropogenic geomorphology in northern Alaska: Physical Geography, v. 3, p. 1748.
- Nelson, R.E., and Carter, L.D., 1985, Pollen analysis of a late Pliocene and early Pleistocene section from the Gubik Formation of Arctic Alaska: Quaternary Research, v. 24, p. 295–306.
- Nelson, S.W., 1992, Ophiolitic complexes of the Gulf of Alaska: U.S. Geological Survey Open-File Report 92–20C, 9 p.
- Nelson, S.W., and Blome, C.D., 1991, Preliminary geochemistry of volcanic rocks from the McHugh Complex and Kachemak terrane, southern Alaska: U.S. Geological Survey Open-File Report 91–134, 14 p.
- Nelson, S.W., and Grybeck, D., 1980, Geologic map of the Survey Pass quadrangle, Brooks Range, Alaska: U.S. Geological Survey Map Miscellaneous Field Studies MF–1176–A, 2 sheets, scale I:250,000.
- Nelson, S.W., and Grybeck, D., 1981, Metamorphic rocks of the Survey Pass quadrangle: U.S. Geological Survey Miscellaneous Field Studies Map MF–1176C, scale 1:250,000.
- Nelson, S.W., and Nelson, W.H., 1982, Geology of the Siniktanneyak Mountain ophiolite, Howard Pass quadrangle, Alaska: U.S. Geological Survey Map MF–1441, 1 sheet, scale 1,63,360.
- Nelson, S.W., Blome, C.D., and Karl, S.M., 1987, Late Triassic and Early Cretaceous fossil ages from the McHugh Complex, southern Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 9698.
- Nelson, S.W., Blome, C.D., Harris, A.G., Reed, K.M., and Wilson, F.H., 1986, Late Paleozoic and Early Jurassic fossil ages from the McHugh Complex, *in* Bartsch-Winkler, S., and Reed, K.M., eds., Geological studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 60–64.
- Nelson, S.W., Dumoulin, J.A., and Miller, M.L., 1985, Geologic map of the Chugach National Forest, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1645-B, 16 p., scale 1:250,000.
- Nelson, S.W., Nokleberg, W.J., Miller-Hoare, M., and Mullen, M. W., 1979, Siniktanneyak Mountain ophiolite, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B14–B16.
- Nelson, W.H., 1959, Geology of Segula, Davidof and Khvostof Islands, Alaska: U.S. Geological Survey Bulletin 1028–K, p. 257–266.
- Nelson, W.H., Carlson, Christine, and Case, J.E., 1983, Geologic map of the Lake Clark quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-1114-A, 1 sheet, scale 1:250,000.

- Neuwald, M.A., 1987, The petrology and geochemistry of the Great Sitkin suite: Implications for the genesis of calcalkaline magmas: Ithaca, New York, Cornell University, Master's thesis, 174 p.
- Newberry, J T., 1984, Seismicity and tectonics of the far western Aleutian islands: East Lansing, Michigan State University, Master's thesis, 93 p
- Newberry, J.T., Laclair, D.L., and Fujita, K., 1986, Seismicity and tectonics of the far western Aleutian Islands: Journal of Geodynamics, v. 6, p. 1332.
- Newberry, R.J., 1986, Mineral resources of the north-central Chugach Mountains, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigation 86–23, 44 p.
- Newberry, R.J., Dillon, J.T., and Adams, D.D., 1986, Regionally metamorphosed, calc-silicate-hosted deposits of the Brooks Range, northern Alaska: Economic Geology, v. 81, p. 1728–1752.
- Newman, G.W., Mull, C.G., and Watkins, N.D., 1979, Northern Alaska paleomagnetism, plate rotation, and tectonics, *in* Sisson, A., ed., The relationship of plate tectonics to Alaskan geology and resources: Anchorage, Alaska Geological Society Symposium Proceedings, No. 6, p. Cl–C7.
- Newman, S., Macdougall, J.D., and Finkel, R.C., 1984, ²³⁰Th/²³³U disequilibrium in island arcs; Evidence from the Aleutians and the Marianas: Nature, v. 308, p. 268–270.
- Newton, C.R., 1983, Paleozoogeographic affinities of Norian bivalves from the Wrangellian, Peninsular, and Alexander terranes, western North America, *in* Stevens, C.H., ed., Pre-Jurassic rocks in western North American suspect terranes: Los Angeles, Calif., Pacific Section, Society of Economic Paleontologists and Mineralogists, p. 37–48.
- Nichols, D.R., 1989, Pleistocene glacial events, southeastern Copper River Basin, Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 78–80.
- Nichols, D.R., and Yehle, L.A., 1985, Volcanic debris flows, Copper River Basin, Alaska, *in* Proceedings, 4th International Conference and Field Workshop on Landslides, Tokyo, 1985: Tokyo, Japan Landslide Society, p. 365–372.
- Nichols, K.M., and Silberling, N.J., 1979, Early Triassic (Smithian) ammonites of paleoequatorial affinity from the Chulitna terrane, south-central Alaska: U.S. Geological Survey Professional Paper 1121 –B1, 5 p.
- Nikiforoff, C., 1928, The perpetually frozen subsoil of Siberia: Soil Science, v.26, no. 1, p. 6177.
- Nilsen, T.H., 1981, Upper Devonian and Lower Mississippian redbeds, Brooks Range, Alaska, *in* Miall, A. D., ed., Sedimentation and tectonics in alluvial basins: Geological Association of Canada Special Paper 23, p. 187–219.
- Nilsen, T.H., 1984, Miocene back-arc tidal deposits of the Bear Lake Formation, Alaska Peninsula, *in* Reed, K. M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 85–88.
- Nilsen, T.H., and Bouma, A.H., 1977, Turbidite sedimentology and depositional framework of the Upper Cretaceous Kodiak Formation and related stratigraphic units, southern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 9, p. 1115.
- Nilsen, T.H., and Moore, G.W., 1979, Reconnaissance study of Upper Cretaceous to Miocene stratigraphic units and sedimentary facies, Kodiak and adjacent islands, Alaska, with a section on sedimentary petrology *by* G.R. Winkler: U.S. Geological Survey Professional Paper 1093, 34 p.
- Nilsen, T.H., and Moore, T.E., 1984, Stratigraphic nomenclature for the Upper Devonian and Lower Mississippian(?) Kanayut Conglomerate, Brooks Range, Alaska: U.S. Geological Survey Bulletin 1529–A, p. A1–A64.
- Nilsen, T.H., and Patton, W.W., Jr., 1984, Cretaeous fluvial to deep-marine deposits of the central Yukon-Koyukuk basin, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., U.S. Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 37–40.
- Nilsen, T.H., and Zuffa, G.G., 1982, The Chugach terrane, a Cretaceous trenchfill deposit, southern Alaska, *in* Leggett, J.K., ed., Trench-forearc geology; sedimentation and tectonics on modern and ancient active plate margins, conference: Geological Society of London Special Publication 10, p. 213–227.
- Nilsen, T.H., Brabb, E.E., and Simoni, T.R., 1976, Stratigraphy and sedimentology of the Nation River Formation, a Devonian deep-sea fan deposit in east-central Alaska, *in* Miller, T.P., ed., Recent and ancient sedimentary environments in Alaska: Anchorage, Alaska Geological Society, p. E1–E20.
- Nilsen, T.H., Moore, T.E., Brosgé, W.P., and Dutro, J.T., Jr., 1981, Sedimentology and stratigraphy of the Kanayut Conglomerate and associated units, central and eastern Brooks Range, Alaska Report of the 1979 field season: U.S. Geological Survey Open-File Report 81–506, 39 p.

- Nilsen, T.H., Plafker, G., Atwood, D.E., and Hill, E.R., 1984, Sedimentology of flysch of the upper Mesozoic Yakutat Group, Malaspina district, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 5760.
- Nishenko, S.P. and Jacob, K.H., 1990, Seismic potential of the Queen Charlotte-Alaska-Aleutian seismic zone: Journal of Geophysical Research, v. 95, no. B3, p. 2511–2533.
- Nitsch, K.H., 1971, Stabilitatsbeziehungen von prehnit-und pumpellyit-haltigen paragenesen: Contributions to Mineralogy and Petrology, v. 30, p. 240–260.
- Noel, G.A., 1966, The productive mineral deposits of southeastern Alaska: Canadian Institute of Mining and Metallurgy, v. 8, p. 215–229.
- Nokleberg, W.J., Albert, N.R.D., and Zehner, R.E., 1979, The ophiolite of Tangle Lakes in the southern Mount Hayes quadrangle, eastern Alaska Range; An accreted terrane?, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B96–B98
- Nokleberg, W.J., Albert, N.R.D., HeQon, P.I., Miyaoka, R.T., and Zehner, R.E., 1981, Cross section showing accreted Andean-type arc and island arc terranes in southwestern Mount Hayes quadrangle, Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B66–B67.
- Nokleberg, W.J., Aleinikoff, J.N., and Lange, I.M., 1983, Origin and accretion of Andean-type and island arc terranes of Paleozoic age juxtaposed along the Hines Creek fault, Mount Hayes quadrangle, eastern Alaska Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 427.
- Nokleberg, W.J., Aleinikoff, J.N., and Lange, I.M., 1986, Cretaceous deformation and metamorphism in the northeastern Mount Hayes quadrangle, eastern Alaska Range, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1985: U.S. Geological Survey Circular 978, p. 64–69.
- Nokleberg, W.J., and 7 others, 1992, Map, tables, and summary of fossil and isotopic age data, Mount Hayes quadrangle, eastern Alaska Range, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map 1996–D, 86 p., 1 sheet, scale 1:250,000.
- Nokleberg, W.J., and 6 others, 1992, Preliminary geologic map of the Mount Hayes quadrangle, eastern Alaska Range, Alaska: U.S. Geological Survey Open-File Report 92–594, 39 p., 1 sheet, scale 1:250,000.
- Nokleberg, W.J., and 7 others, 1987, Significant metalliferous lode deposits and placer districts of Alaska: U.S. Geological Survey Bulletin 1786, 104 p., 2 plates, scale 1:5,000,000.
- Nokleberg, W.J., and 7 others, 1988, Metallogeny and major mineral deposits of Alaska: U.S. Geological Survey Open-File Report 88–73, 97 p., 2 plates, scale 1:5,000,000.
- Nokleberg, W.J., and 10 others, 1982, Geologic map of the southern Mount Hayes quadrangle, Alaska: U.S. Geological Survey Open-File Report 82–52, 27 p., 1 sheet, scale 1:250,000.
- Nokleberg, W.J., and Aleinikoff, J.N., 1985, Summary of stratigraphy, structure, and metamorphism of Devonian igneous-arc terranes, northeastern Mount Hayes quadrangle, eastern Alaska Range, Alaska, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 66–71.
- Nokleberg, W. J., and Lange, I. M., 1985, Volcanogenic massive sulfide occurrences, Jarvis Creek Glacier terrane, western Mount Hayes quadrangle, eastern Alaska Range, *in* Bartsch-Winkler, S., and Reed, K. M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 77–80.
- Nokleberg, W.J., and Lange, I.M., 1985, Metallogenetic history of the Wrangellia terrane, eastern Alaska Range, Alaska [abs.]: U.S. Geological Survey Circular 949, p. 36–38.
- Nokleberg, W.J., and Winkler, G.R., 1982, Stratiform zinc-lead deposits in the Drenchwater Creek area, Howard Pass quadrangle, northwestern Brooks Range, Alaska: U.S. Geological Survey Professional Paper 1209, 2 sheets, scale 1:19,800, 22 p.
- Nokleberg, W.J., and Winkler, G.R., 1978, Geologic setting of the lead and zinc deposits, Drenchwater Creek area, Howard Pass quadrangle, western Brooks Range, Alaska: U.S. Geological Survey Open-File Report 78–70–C, 16 p., 1 sheet, scale 1:19,800.
- Nokleberg, W.J., Foster, H.F., Lanphere, M.A., Aleinikoff, J.N., and Paviis, T.L., 1991, Structure and tectonics of the Yukon–Tanana, Wickersham, Seventymile, and Stikinia terranes along the Trans–Alaskan Crustal Transect (TACT), east–central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 23, no. 2, p. 84.

- Nokleberg, W.J., Foster, H.L., and Aleinikoff, J.N., 1989, Geology of the northern Copper River basin, eastern Alaska Range, and southern YukonTanana Upland, *in* Nokleberg, W.J., and Fisher, M.A., eds., Alaskan geological and geophysical transect, Field trip guidebook T104, 28th International Geological Congress: Washington, D.C., American Geophysical Union, p. 34–63.
- Nokleberg, W.J., Plafker, G., and Wilson, F.H., 1994, Geology of south-central Alaska, *in* Plafker, G. and Berg, H.C., eds., The Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G1, p. 311–366.
- Nokleberg, W.J., Jones, D.L., and Silberling N.J., 1985, Origin and tectonic evolution of the Maclaren and Wrangellia terranes, eastern Alaska Range, Alaska: Geological Society of America Bulletin, v. 96, p. 1251–1270.
- Nokleberg, W.J., Lange, I.M., and Roback, R.C., 1984, Preliminary accretionary terrane model for metallogenesis of the Wrangellia terrane, southern Mount Hayes quadrangle, eastern Alaska Range, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 60–65.
- Nokleberg, W.J., and 6 others, 1994, Tectonostratigraphic terrane and overlap assemblage map of Alaska: U.S. Geological Survey Open-File Report 94–194, 84 p., 1 sheet, scale 1:2,500,000.
- Nokleberg, W.J., Plafker, G., Lull, J.S., Wallace, W.K., and Winkler, G.W., 1989, Structural analysis of the southern Peninsular, southern Wrangellia, and northern Chugach terranes along the Trans-Alaskan Crustal Transect (TACT), northern Chugach Mountains, Alaska: Journal of Geophysical Research, v. 94, p. 4297–4320.
- Nokleberg, W.J., Wade, W.M., Lange, I.M., and Plafker, G., 1986, Summary of geology of the Peninsular terrane, metamorphic complex of Gulkana River, and Wrangellia terrane, north-central and northwestern Gulkana quadrangle, *in* Bartsch-Winkler, S., and Reed, K., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 69–74.
- Norris, D.K., 1972, Structural and stratigraphic studies in the tectonic complex of northern Yukon Territory, north of Porcupine River, *in* Report of Activities, Part B: Geological Survey of Canada Paper 721, p. 9199.
- Norris, D.K., 1972, En echelon folding in the northern Cordillera of Canada: Bulletin of Canadian Petroleum Geology v. 20, no. 3, p. 634642.
- Norris, D.K., 1982, Geology of the Ogilvie River (116G and 116F) map area: Geological Survey of Canada Map 1526A, scale 1:250,000.
- Norris, D.K., 1984, Geology of the Northern Yukon and Northwestern District of Mackenzie: Geological Survey of Canada Map 1581A, scale 1:500,000.
- Norris, D.K., 1985, The Neruokpuk Formation, Yukon Territory and Alaska, *in* Current Research, Part B: Geological Survey of Canada Paper 85–1 B. p.223–229.
- Norris, D.K., 1987, Porcupine virgation; A key to the collapse of the Brooks Range orogen [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 437.
- Norris, D.K., and Yorath, C.J., 1981, The North American plate from the Arctic Archipelago to the Romanzof Mountains, *in* Nairn, A.E.M., Churkin, M., Jr., and Stehli, F. G., eds., The ocean basins and margins; v. 5, The Arctic Ocean: New York, Plenum Press, p. 37103.
- North American Commission on Stratigraphic Nomenclature, 1983, North American Stratigraphic Code: American Association of Petroleum Geologists Bulletin, v. 67, p. 841–875.
- North Slope Stratigraphic Committee, 1970, The Sag River Sandstone and Kuparuk River sands, two important subsurface units in the Prudhoe Bay field *in* Adkison, W. L., and Brosgé, W.P., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, Calif. American Association of Petroleum Geologists, Pacific Section, p. P1–P3.
- Nunn, J.A., Czerniak, M., and Pilger, R.H., Jr., 1987, Constraints on the structure of Brooks Range and Colville basin, northern Alaska, from flexure and gravity analysis: Tectonics, v. 6, p. 603–617.
- Nye, C.J., 1983, Petrology and geochemistry of Okmok and Wrangell Volcanoes, Alaska: University of California at Santa Cruz, Ph.D. dissertation, 208 p.
- Nye, C.J., 1987, Stratigraphy, petrology, and geochemistry of the Spurr volcanic complex, eastern Aleutian arc, Alaska: Fairbanks, University of Alaska Geophysical Institute Report UAG R-311, 135 p.
- Nye, C.J., and Reid, M.R., 1986, Geochemistry of primary and least fractionated lavas from Okmok Volcano, central Aleutians; Implications for magmagenesis: Journal of Geophysical Research, v. 91, p. 10271–10287.
- Nye, C.J., and Reid, M.R., 1987, Corrections to "Geochemistry of primary and least fractionated lavas from Okmok Volcano, central Aleutians; Implications for magmagenesis": Journal of Geophysical Research, v. 92, p. 8182.

- Nye, C.J., and Turner, D.L., 1990, Petrology, geochemistry, and age of the Spurr volcanic complex, eastern Aleutian arc: Bulletin of Volcanology, v. 52, p. 205–226.
- Nye, C.J., Swanson, S.E., and Reeder, J.W., 1986, Petrology and geochemistry of Quaternary volcanic rocks from Makushin Volcano, central Aleutian arc: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Open-File Report 86–80, p. I 106.
- O'Sullivan, P.B., and 6 others, 1993, Multiple phases of Tertiary uplift and erosion in the Aretie National Wildlife Refuge, Alaska, revealed by apatite fission track analysis: American Association of Petroleum Geologists Bulletin, v. 77, p. 359–385.
- O'Sullivan, P.B., Murphy, J.M., and Moore, T.E., 1991, Apatite fission track evidence for Tertiary uplift in the Doonerak Fenster region, central Brooks Range, Alaska [abs.]: Eos, American Geophysical Union 1991 Fall Meeting Programs and Abstracts, v. 19, no. 44, p. 299.
- O'Sullivan, P.B., Murphy, J.M., Moore, T.E., and Howell, D.G., 1993, Results of 110 apatite fission track analyses from the Brooks Range and North Slope of northern Alaska, completed in cooperation with the Trans-Alaska Crustal Transect (TACT): U.S. Geological Survey Open-File Report 93–545, 104 p.
- O'Sullivan, P.O., 1988, Preliminary results of 42 apatite fission track analyses of samples from Arctic National Wildlife Refuge, northeastern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Public Data File Report 88–25A, 57 p.
- O'Sullivan, P.O., Decker, J., and Bergman, S.C., 1989, Apatite fission track thermal history of Permian to Tertiary sedimentary rocks in the Arctic National Wildlife Refuge, northeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 126.
- Oil and Gas Journal, 1984, Exxon; N. Slope gas/condensate field is a giant: Oil and Gas Journal, v. 82, no. 11, p. 30.
- Oil and Gas Journal, 1988, U.S. fields with reserves exceeding 100 million bbl: Oil and Gas Journal, v. 86, no. 4, p. 60.
- Oldow, J.S., and Avé Lallemant, H.G., 1989, Tectonic elements of eastern Arctic Alaska and northwestern Canada: Eos (American Geophysical Union Transactions), v. 70, p. 1337–1338.
- Oldow, J.S., Avé Lallemant, H.G., and Gottschalk, R.R., 1987, Large-scale extension within a contractional orogen: South-central Brooks Range Alaska: Eos (American Geophysical Union Transactions), v. 68, p. 1457.
- Oldow, J.S., Avé Lallemant, H.G., Julian, F.E., and Seidensticker, C.M., 1987, Ellesmerian(?) and Brookian deformation in the Franklin Mountains, northeastern Brooks Range, Alaska, and its bearing on the origin of the Canada Basin: Geology, v. 15, p. 37–41.
- Oldow, J.S., Bally, A.W., Avé Lallemant, H.G., and Leeman, W.P., 1989, Phanerozoic evolution of the North American Cordillera; United States and Canada, *in* Bally, A.W., and Palmer, A.R., eds., The Geology of North America—An overview: Boulder, Colo., Geological Society of America, Geology of North America, v. A, p. 139–232.
- Oldow, J.S., Gottschalk, R.R., and Avé Lallemant, H.G., 1987, Low-angle normal faults: Southern Brooks Range fold and thrust belt, northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, no. 6, p. 438.
- Oldow, J.S., and 7 others, 1987, Balanced cross sections through the central Brooks Range and North Slope, Arctic Alaska: American Association of Petroleum Geologists Publication, 19 p., 8 plates, scale 1:200,000.
- Olhoeft, G.R., Watts, R., Frischknecht, F., Bradley, F., and Dansereau, D., 1979, Electromagnetic geophysical exploration in the National Petroleum Reserve in Alaska, *in* Proceedings, Symposium on Permafrost Field Methods, Saskaton, Saskatchewan, 1977: Ottawa, National Research Council of Canada Technical Memorandum 124, p. 184–190.
- Oliver, W.A., Jr., Merriam, C.W., and Churkin, M., Jr., 1975, Ordovician, Silurian, and Devonian corals of Alaska: U.S. Geological Survey Professional Paper 823–B. p. 13–44
- Olson, D.L., Larson, J.A., and Turner, R.F., 1987, Biostratigraphy, *in* Turner, R.F., ed., Geological and operational summary, Kodiak shelf stratigraphic test wells, western Gulf of Alaska: Anchorage, Alaska, Minerals Management Service, Outer Continental Shelf Report MMS 87–0109, p. 139–191.
- Onstott, T.C., Sisson, V.B., and Turner, D.L., 1989, Initial argon in amphiboles from the Chugach Mountains, southern Alaska: Journal of Geophysical Research, v. 94, p. 4361–4372.
- Ormiston, A.R., and Ross, R.J., Jr., 1979, Monorakos in the Ordovician of Alaska and its zoogeographic significance, *in* Gray, J., and Boucot, A.J., eds., Historical biogeography, plate tectonics, and the changing environment: Corvallis, Oregon State University Press, p. 53–59.
- Osterkamp, T.E., and Payne, M.W., 1981, Estimates of permafrost thickness from well logs in northern Alaska: Cold Regions Science and Technology, v.5, no. 1, p. 13–27.

- Osterkamp, T.E., Pattersen, J.K., and Collett, T.S., 1985, Permafrost thickness in the Oliktok Point, Prudhoe Bay, and Mikkelsen Bay areas of Alaska: Cold Regions Science and Technology, v. 11, no. 2, p. 99–105.
- Ouderkirk, K.A., 1982, A petrographical study of dike and volcanic rocks in the Prince Rupert, British Columbia and Ketchikan area: Bryn Mawr, Pennsylvania, Bryn Mawr College, [Senior thesis] 31 p.
- Oxburgh, E.R., and Turcotte, D.L., 1976, The physico-chemical behavior of the descending lithosphere: Tectonophysics, v. 32, p. 107–128.
- Pacht, J.A., and Wallace, W.K., 1984, Depositional facies of a post-accretionary sequence; The Cretaceous Kuskokwim Group of southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 327.
- Packer, D.R., and Stone, D.B., 1972, An Alaskan Jurassic paleomagnetic pole and the Alaskan orocline: Nature; Physical Science, v. 237, p. 25–26.
- Packer, D.R., and Stone, D.B., 1974, Paleomagnetism of Jurassic rocks from southern Alaska, and the tectonic implications: Canadian Journal of Earth Sciences, v. 11, p. 976–997.
- Packer, D.R., Brogan, G.E., and Stone, D.B., 1975, New data on plate tectonics of Alaska: Tectonophysics, v. 29, p. 87–102.
- Page, R.A., 1959, Tertiary geology of the Cheyenne Creek area, Alaska: Seattle, University of Washington, Master's thesis, 66 p.
- Page, R.A., 1969, Late Cenozoic movement on the Fairweather fault in southeastern Alaska: Geological Society America Bulletin, v. 80, no. 9, p. 1873–1877.
- Page, R.A., 1973, The Sitka, Alaska, earthquake of 1972, an expected visitor: Earthquake Information Bulletin, v. 5, no. 5, p. 4–9.
- Page, R.A., 1975, Evaluation of seismicity and earthquake shaking at offshore sites: Houston, Tex., Annual Offshore Technology Conference, 7th, Proceedings, v. 3, p. 179–190.
- Page, R.A., and 6 others, 1986, Accretion and subduction tectonics in the Chugach Mountains and Copper River basin, Alaska; Initial results of Trans-Alaska crustal transect: Geology, v. 14, p. 501–505.
- Page, R.A., Stephens, C.D., and Lahr, J.C., 1989, Seismicity of the Wrangell and Aleutian Wadati-Benioff zones and the North American plate along the Trans-Alaska crustal transect, Chugach Mountains and Copper River Basin, southern Alaska: Journal of Geophysical Research, v. 94, p. 16,059–16,082.
- Page, R.A., Biswas, N.N., Lahr, J.C., and Pulpan, Hans, 1991, Seismicity of continental Alaska *in* Slemmons, D.B., Engdahl, E.R., Zoback, M.D., Zoback, M.L., and Blackwell, D., eds., Neotectonics of North America: Boulder, Colo., The Geological Society of America, CSM V-1.
- Page, R.A., Plafker, George, Fuis, G.S., Nokleberg, W.J., Ambos, E.L., Mooney, W.D., Campbell, D.L., 1986, Accretion and subduction tectonics in the Chugach Mountains and Copper River Basin, Alaska: Initial results of the Trans-Alaska Crustal Transect: Geology, v. 14, no. 6., p. 501–506.
- Paige, S., 1906, The Herendeen Bay coal field: U.S. Geological Survey Bulletin 284, p. 101-108.
- Paige, S., and Knopf, A., 1907, Stratigraphic succession in the region northeast of Cook Inlet, Alaska: Geological Society of America Bulletin, v. 18, p. 327–328.
- Pallister, J.S., and Carlson, C., 1988, Bedrock geologic map of the Angayucham Mountains, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–2024, scale 1:63,360.
- Pallister, J.S., Budahn, J.R., and Murchey, B.L., 1989, Pillow basalts of the Angayucham terrane; Oceanic-plateau and island crust accreted to the Brooks Range: Journal of Geophysical Research, v. 94, no. B11, p. 15,901–15,923.
- Palmer, A.R., compiler, 1983, The Decade of North American Geology 1983 geologic time scale: Geology, v. 11, p. 503–504.
- Palmer, A.R., Dillon, J.T., and Dutro, J.T., Jr., 1984, Middle Cambrian trilobites with Siberian affinities from the central Brooks Range, northern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 327.
- Palmer, A.R., Egbert, R.M., Sullivan, R., and Knoth, J.S., 1985, Cambrian trilobites with Siberian affinities, southwestern Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, no. 2, p. 295.
- Palmer, I.F., Jr., 1976, U.S.G.S. releases Alaskan well data: Oil and Gas Journal, v. 74, no. 12, p. 101-104.
- Panuska, B.C., 1985 (Paleomagnetic evidence for a post-Cretaceous accretion of Wrangellia: Geology, v. 13, p. 880–883.

- Panuska, B.C., 1982, Radiometric-age determinations from Kiska Island, Aleutian Islands, Alaska, *in* Short notes on Alaska geology: Fairbanks, Alaska Division of Geological Survey Open-File Report 73, p. 23–27.
- Panuska, B.C. and Macicak, M., 1986, A revised paleolatitude for the Paleocene Teklanika Volcanics, central Alaska Range, Alaska: EOS (Transactions of the American Geophysical Union), v. 67, p. 921.
- Panuska, B.C., and Stone, D.B., 1981, Late Palaeozoic palaeomagnetic data for Wrangellia; Resolution of the polarity ambiguity: Nature, v. 293, p. 561–563.
- Panuska, B.C., and Stone, D.B., 1985, Confirmation of the pre-50 m.y. accretion age of the Southern Alaska superterrane: EOS (Transactions of the American Geophysical Union), v. 66, p. 863.
- Panuska, B.C., and Stone, D.B., 1985, Latitudinal motion of the Wrangellia and Alexander terranes and the Southern Alaska superterrane, *in* Howell, D.G., ed., Tectonostratigraphic terranes of the circum-Pacific region: Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 1, p. 109–120.
- Panuska, B.C., Stone, D.B., and Turner, D.L., 1990, Paleomagnetism of Eocene volcanic rocks, Talkeetna Mountains, Alaska: Journal of Geophysical Research, v. 95, p. 6737–6750.
- Parfenov, L.M., and Natal'in, B.A., 1986, Mesozoic tectonic evolution of northeastern Asia: Tectonophysics, v. 127, p. 291–304.
- Parkinson, L.J., 1962, One field, one giant; The story of Swanson River: Oil and Gas Journal, v. 60, no. 13, p. 180-183.
- Parmentier, P.P., Reeder, J.W., and Henning, M.W., 1983, Geology and hydrothermal alteration of Makushin geothermal area, Unalaska Island, Alaska: Geothermal Resources Council Transactions, v. 7, p. 181–185.
- Parrish, J.T., 1987, Lithology, geochemistry, and depositional environment of the Triassic Shublik Formation, northern Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, Vols. 1 and 2, p. 391–396.
- Patrick, B.E., 1986, Relationship between the Seward Peninsula blueschists and the Brooks Range orogeny; Evidence from regionally consistent stretching lineations [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 169.
- Patrick, B.E., 1988, Synmetamorphic structural evolution of the Seward Peninsula blueschist terrane, Alaska: Journal of Structural Geology, v. 10, no. 6, p. 555–565.
- Patrick, B.E., and Evans, B.W., 1989, Metamorphic evolution of the Seward Peninsula blueschist terrane: Journal of Petrology, v. 30, p. 531–556.
- Patrick, B.E., and Lieberman, J.E., 1987, Thermal overprint on the Seward Peninsula blueschist terrane; The Lepontine in Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 800–801.
- Patrick, B.E., and Lieberman, J.E., 1988, Thermal overprint on the Seward Peninsula blueschist terrane: the Lepontine in Alaska: Geology, v. 16, p. 1100–1103.
- Patrick, B.E., Dinklage, W.S., and Till, A.B., 1991, Metamorphism and progressive deformation in the Walker Lake region of the southern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v.23, p.87.
- Patton, W.W., Jr., 1956, New and redefined formations of Early Cretaceous age, *in* Gryc, G., and others, eds., Mesozoic sequence in Colville River region, northern Alaska: American Association of Petroleum Geologists Bulletin, v. 40, p. 209–254.
- Patton, W.W., Jr., 1957, A new upper Paleozoic formation, central Brooks Range, Alaska, in Part 3, Areal geology: Exploration of Naval Petroleum Reserve No. 4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 303–B, p. 41–45.
- Patton, W.W., Jr., 1966, Regional geology of the Kateel River quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I–437, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., 1967, Regional geologic map of the Candle quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–492, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., 1970, A discussion of tectonic history of northern Alaska, *in* Adkinson, W.L., and Brosgé, W.P., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, Calif., Pacific Section, American Association of Petroleum Geologists, p. E20.
- Patton, W.W., Jr., 1970, Petroleum possibilities of the Yukon-Koyukuk province, Alaska, *in* Cram, I.H., ed., Future petroleum provinces of the United States-their geology and potential: American Association of Petroleum Geologists Memoir 15, v. 1, p. 100–104.

- Patton, W.W., Jr., 1973, Reconnaissance geology of the northern Yukon-Koyukuk province, Alaska: U.S. Geological Survey Professional Paper 774–A, p. A1–A17.
- Patton, W.W., Jr., 1975, New information on the Kaltag fault: *in* Johnson, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1977: U.S. Geological Survey Circular 722, p. 43.
- Patton, W.W., Jr., 1978, Juxtaposed continental and ocean-island arc terranes in the Medfra quadrangle, west-central Alaska, *in* Johnson, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1977: U.S. Geological Survey Circular 772–B, p. B38–B39.
- Patton, W.W., Jr., 1978, Maps and table describing areas of interest for oil and gas in central Alaska: U.S. Geological Survey Open-File Report 78–1–F, 2 p.
- Patton, W.W., Jr., 1984, Timing of arc collision and emplacement of oceanic crustal rocks on the margins of the Yukon-Koyukuk basin, western Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 328.
- Patton, W.W., Jr., 1992, Ophiolitic terrane of the western Brooks Range, Alaska: U.S. Geological Survey Open-File Report 92–20D, 7 p.
- Patton, W.W., Jr., 1992, Ophiolitic terrane bordering the Yukon-Koyukuk basin, Alaska: U.S. Geological Survey Open-File Report 92–20F, 7 p.
- Patton, W.W., Jr., and Bickel, R.S., 1956, Geologic map and structure sections along part of the lower Yukon River, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–197, scale 1:200,000.
- Patton, W.W., Jr., and Bickel, R. S., 1956, Geologic map and structure sections of the Shaktolik River area, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–226, scale 1:80,000.
- Patton, W.W. Jr., and Box, S.E., 1985, Tectonic setting and history of the Yukon Koyukuk basin, Alaska [abs.]: EOS (Transactions of the Geophysical Union), v. 66, no. 46, p. 1101.
- Patton, W.W., Jr., and Box, S.E., 1989, Tectonic setting of the Yukon-Koyukuk basin and its borderlands, western Alaska: Journal of Geophysical Research, v. 94, no. B11, p. 15,807–15,820.
- Patton, W.W., Jr., and Box, S.E., 1992, Ophiolitic terranes of east-central and southwestern Alaska: U.S. Geological Survey Open-File Report 92–20–G, 13 p.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1966, Regional geologic map of the Hughes quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–459, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1968, Regional geologic map of the Selawik and southeastern Baird Mountains quadrangles, Alaska: U.S. Geological Survey Miscellaneous Geology Investigations Map I–530, 1 sheet, scale 1:250.000.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1971, Preliminary geologic investigations of western St. Lawrence Island, Alaska: U.S. Geological Survey Professional Paper 684–C, p. C1–C15.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1973, Bedrock geologic map of Bettles and southern part of Wiseman quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–492, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1979, Geologic map of St. Lawrence Island, Alaska: U.S. Geological Survey Open-File Report 79–945, scale 1:250,000.
- Patton, W.W., Jr., and Csejtey, Béla, Jr., 1980, Geologic map of St. Lawrence Island, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1203, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., and Dutro, J.T., Jr., 1969, Preliminary report on Paleozoic and Mesozoic sedimentary sequence on St. Lawrence Island, Alaska, *in* Geological Survey research 1969: U.S. Geological Survey Professional Paper 650–D, p. D138–D143.
- Patton, W.W., Jr., and Dutro, J.T., Jr., 1979, Age of the metamorphic complex in the northern Kuskokwim Mountains, west-central Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, B61–B63.
- Patton, W.W., Jr., and Hoare, J.M., 1968, The Kaltag fault, west-central Alaska, *in* Geological Survey Research 1968: U.S. Geological Survey Professional Paper 600–D, p. D147–D153.
- Patton, W.W., Jr., and Miller, T. P., 1966, Regional geologic map of the Hughes quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–459, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., and Miller, T.P., 1968, Regional geologic map of the Selawik and southeastern Baird Mountains quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–530, scale 1:250,000.

- Patton, W.W., Jr., and Miller, T.P., 1970, Preliminary geologic investigations in the Kanuti River region, Alaska: U.S. Geological Survey Bulletin 1312–J, p. Jl–J10.
- Patton, W.W., Jr., and Miller, T.P., 1970, A possible source for obsidian found in archeological sites in northwestern Alaska: Science, v. 169, scale 1:250,000 p.760–761.
- Patton, W.W., Jr., and Miller, T.P., 1973, Bedrock geologic map of Bettles and southern Part of Wiseman quadrangles, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–492, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., and Moll, E.J., 1982, Structural and stratigraphic sections along a transect between the Alaska Range and Norton Sound, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 76–78.
- Patton, W.W., Jr., and Moll, E.J., 1984, Reconnaissance geology of the northern part of the Unalakleet quadrangle, *in* Coonrad, W.L., and Elliott, R.L., eds., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 24–27.
- Patton, W.W., Jr., and Moll, E.J., 1985, Geologic map of northern and central parts of Unalakleet quadrangle, Alaska: U.S. Geological Ssurvey Miscellaneous Investigations Map MF–1749, scale 1:250,000.
- Patton, W.W., Jr., and Tailleur, I.L., 1964, Geology of the Killik-Itkillik region, Alaska, in Part 3, Areal geology: Exploration of Naval Petroleum Reserve No.4 and adjacent areas, northern Alaska, 1944 53: U.S. Geological Survey Professional Paper 303–G, p. 409–500.
- Patton, W.W., Jr., and Tailleur, I.L., 1977, Evidence in the Bering Strait region for differential movement between North America and Eurasia: Geological Society of America Bulletin, v. 88, p. 1298–1304.
- Patton, W.W., Jr., Box, S.E., and Grybeck, D.J., 1989, Ophiolites and other mafic-ultramafic complexes in Alaska: U.S. Geological Survey Open-File Report 89–648,1 plate, 27 p.
- Patton, W. W., Jr., Box, S. E., Moll-Stalcup, E. J., and Miller, T. P., 1989, Geology of west-central Alaska: U.S. Geological Survey Open-File Report 89–554, 53 p.
- Patton, W.W., Jr., Box, S.E., Moll-Stallcup, E.J., and Miller, T.P., 1994, Geology of west-central Alaska, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G–1, p. 241-270.
- Patton, W.W., Jr., Dutro, J.T., Jr., and Chapman, R.M., 1977, Late Paleozoic and Mesozoic stratigraphy of the Nixon Fork area, Medfra quadrangle, Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B38–B40.
- Patton, W.W., Jr., Lanphere, M.A., Miller, T.P., and Scott, R.A., 1974, Age and tectonic significance of volcanic rocks on St. Matthew Island, Bering Sea, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 6, p. 905–906.
- Patton, W.W., Jr., Lanphere, M.A., Miller, T.P., and Scott, R.A., 1976, Age and tectonic significance of volcanic rocks on St. Matthew Island, Bering Sea, Alaska: U.S. Geological Survey Journal of Research, v. 4, no. 1, p. 67–73.
- Patton, W.W., Jr., Miller, T.P., and Tailleur, I.L, 1968, Regional geologic map of the Shungnak and southern part of the Ambler River quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–554, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., Miller, T.P., Berg, H.C., Gryc, George, Hoare, J.M., and Ovenshine, A.T., 1975, Reconnaissance geologic map of St. Matthew Island, Bering Sea, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–642, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., Miller, T.P., Chapman, R.M., and Yeend, W., 1978, Geologic map of the Melozitna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1071, scale 1:250,000.
- Patton, W.W., Jr., Miller, T.P., Tailleur, I.L., Brosgé, W.P., and Lanphere, M.A., 1977, Preliminary report on the ophiolites of northern and western Alaska, *in* Coleman, R.G., and Irwin, W.P., eds., North American ophiolites: Oregon Department of Geology and Mineral Industries Bulletin 95, p.51–57.
- Patton, W.W., Jr., Moll, E.J., Lanphere, M.A., and Jones, D.L., 1984, New age data for the Kaiyuh Mountains, west-central Alaska, *in* Coonrad, W.L., and Elliott, R.L., eds., U.S. Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 30–32.
- Patton, W.W., Jr., Moll, E.J., and King, H.D., 1984, The Alaskan mineral resource assessment program: Guide to information contained in the folio of geologic and mineral resource maps of the Medfra quadrangle, Alaska: U.S. Geological Survey Circular 928, 11 p.

- Patton, W.W., Jr., Moll, E.J., Dutro, J.T., Jr., Silberman, M.L., and Chapman, R.M., 1980, Preliminary geologic map of the Medfra quadrangle, Alaska: U.S. Geological Survey Open-File Report 80–811 A, 1 sheet, scale 1:250,000.
- Patton, W.W., Jr., Murphy, J.M., Burns, L.E., Nelson, S.W., and Box, S.E., 1992, Geologic map of ophiolitic and associated volcanic arc and metamorphic terranes of Alaska (west of the 141st meridian): U.S. Geological Survey Open-File Report 92–20A, 1 sheet, scale 1:2,500,000.
- Patton, W. W., Jr., Stern, T. W., Arth, J. G., and Carlson, C., 1987, New U/Pb ages from granite and granite gneiss in the Ruby geanticline and southern Brooks Range, Alaska: Journal of Geology, v. 95, no. 1, p. 118 –126.
- Pavia, E.A., 1986, Structure and stratigraphy of the northeastern Okpilak batholith and jago River area, Romanzof Mountains, northeastern Brooks Range, Alaska: Fairbanks, Alaska Divisions of Mining and Geological and Geophysical Surveys Public Data File 86–86g, 7 p., scale 1:25,000.
- Pavlis, T.L., 1982, Origin and age of the Border Ranges fault of southern Alaska and its bearing on the late Mesozoic tectonic evolution of Alaska: Tectonics, v. 1, no. 4, p. 343–368.
- Pavlis, T.L., 1983, Pre-Cretaceous crystalline rocks of the western Chugach Mountains, Alaska: nature of the basement of the Jurassic Peninsular terrane: Geological Society of America Bulletin, v. 94, no. 11, p. 1329–1344.
- Pavlis, T.L., 1986, Geologic map of the Anchorage C-5 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public-Data File 86–7, 44 p., 1 sheet, scale 1:63,360.
- Pavlis, T.L., 1989, Middle Cretaceous orogenesis in the northern Cordillera: A Mediterranean analog of collision-related extensional tectonics: Geology, v. 17, p. 947–950.
- Pavlis, T.L., and Crouse, G.W., 1989, Late Mesozoic strike slip movement on the Border Ranges fault system in the eastern Chugach Mountains, southern Alaska: Journal of Geophysical Research, v. 94, p. 4321–4332.
- Pavlis, T.L., Monteverde, D.H., Bowman, J.R., Rubenstone, J.L., and Reason, M.D., 1988, Early Cretaceous near-trench plutonism in southern Alaska; A tonalite-trondhjemite intrusive complex injected during ductile thrusting along the Border Ranges fault system: Tectonics, v. 7, no. 6, p. 1179–1200.
- Pavlis, T.L., Sisson, V.B., Foster H.L., Nokleberg, W.J., and Plafker, G., 1993, Mid-Cretaceous extensional tectonics of the Yukon-Tanana terrane, TransAlaskan Crustal Transect (TACT), east-central Alaska: Tectonics, v. 12, no. 1, p. 103–122.
- Payne, J.H., 1987, Diagenetic variations in the Permo-Triassic Ivishak Sandstone in the Prudhoe Bay field and central-northeastern National Petroleum Reserve in Alaska, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 77–83.
- Payne, T.G., 1955, Mesozoic and Cenozoic tectonic elements of Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–84, scale 1:5,000,000.
- Payne, T.G., and 8 others, 1951, Geology of the North Slope of Alaska: U.S. Geological Survey Oil and Gas Investigations Map OM–126, 3 sheets, scale 1:1,000,000.
- Pearce, J.A., 1982, Trace element characteristics of lavas from destructive plate boundaries, *in* Thorpe, R.S., ed., Andesites; Orogenic andesites and related rocks: Chichester, John Wiley and Sons, p. 525–548.
- Pearce, J.A., 1983, Role of subcontinental lithosphere in magma genesis at active continental margins, *in* Hawkesworth, C.J., and Norry, M.J., eds., Continental basalts and mantle xenoliths: Cheshire, United Kingdom, Shiva Publications, p. 230–249.
- Pearce, J.A., and Cann, J.R., 1973, Tectonic setting of basic volcanic rocks determined using trace element analysis: Earth and Planetary Science Letters, v. 19, p. 290–300.
- Peccerillo, A., and Taylor, S.R., 1976, Geochemistry of Eocene calc-alkaline volcanic rocks from the Kastamonu area, northern Turkey: Contributions to Mineralogy and Petrology, v. 58, p. 63–81.
- Peck, B.J., Kaufman, D.S., and Calkin, P.E., 1990, Relative dating of moraines using moraine morphometric and boulder weathering criteria, Kigluaik Mountains, Alaska: Boreas, v. 19, p. 227 239.
- Perfit, M.R., 1977, The petrochemistry of igneous rocks from the Cayman Trough and the Captains Bay Pluton, Unalaska Island: Their relation to tectonic processes at plate boundaries: Ithaca, New York, Cornell University, Ph.D. dissertation, 273 p.
- Perfit, M.R., and Kay, R.W., 1986, Comment *on* 'Isotopic and incompatible element constraints on the genesis of island arc volcanics from Cold Bay and Amak Island, Aleutians, and implications for mantle structure': Geochimica et Cosmochimica Acta, v. 50, p. 477–481.

- Perfit, M.R., and Lawrence, J.R., 1979, Oxygen isotopic evidence for meteoric water interaction with the Captains Bay Pluton, Aleutian Islands: Earth and Planetary Science Letters, v. 45, p. 16–22.
- Perfit, M.R., Brueckner, Hannes, Lawrence, J.R., and Kay, R.W., 1980, Trace element and isotopic variations in a zoned pluton and associated volcanic rock, Unalaska Island, Alaska: a model for fractionation in the Aleutian calcalkaline suite: Contributions to Mineralogy and Petrology, v. 73, no. 1, p. 69–87.
- Perfit, M.R., Gust, D.A., Bence, A.E., Arculus, R.J. and Taylor, S.R., 1980, Chemical characteristics of island arc basalts; Implications for mantle sources: Chemical Geology, v. 30, p. 227–256.
- Pessel, G.H., and Brosgé, W.P., 1977, Preliminary reconnaissance geologic map of Ambler River quadrangle, Alaska: U.S. Geological Survey Open-File Report 77–28, 1 sheet, scale 1:250,000.
- Pessel, G.H., Garland, R.E., Tailleur, I.L., and Eakins, G.R., 1973, Preliminary geologic map of southeastern Ambler River and part of Survey Pass quadrangles: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–36, 2 sheets, scale 1:63,360.
- Pessel, G.H., Henning, M.W., and Burns, L.E., 1981, Preliminary geologic map of parts of the Anchorage C-1, C-2, D-1, and D-2 quadrangles, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF-121, I sheet, scale 1:63,360.
- Pessel, G.H., Levorsen, J.A., and Tailleur, I.L., 1978, Generalized isopach map of Jurassic and possibly Lower Cretaceous shale, including Kingak Shale, eastern North Slope petroleum province, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–928K, 1 sheet, scale 1:500,000.
- Peters, K.E., Moldowan, J.M., Schoell, M., and Hempkins, W.B., 1986, Petroleum isotopic and biomarker composition related to source rock organic matter and depositional environment, *in* Leythaeuser, D., and Rulikotter, J., eds., Advances in organic geochemistry; Part 1, Petroleum geochemistry: Organic Geochemistry, v. 10, no. 1–3, p. 17–27.
- Petroleum Information, 1988, Alaska well history control system (WHCS): Petroleum Information Corporation digital file, proprietary.
- Petrov, O.M., 1967, Paleogeography of Chukotka during late Neogene and quaternary time, *in* Hopkins, D. M., ed., The Bering land bridge: Palo Alto, Calif., Stanford University Press, p. 144–171.
- Péwé, T.L., 1948, Permafrost investigations, Fairbanks area, Alaska: U.S. Geological Survey Permafrost Program Preliminary Report, 16 p.
- Péwé, T.L., 1948, Terrain and permafrost, Galena area, Alaska: U.S. Geological Survey Permafrost Program Progress Report 7, 52 p.
- Péwé, T.L., 1949, Preliminary report of permafrost investigations in the Dunbar area, Alaska: U.S. Geological Survey Circular 42, 3 p.
- Péwé, T.L., 1954, Effect of permafrost on cultivated fields, Fairbanks area, Alaska: U.S. Geological Survey Bulletin 989–F, p. 315–351.
- Péwé, T.L., 1963, Frost heaving of piles with an example from Fairbanks, Alaska: U.S. Geological Survey Bulletin 1111–I, p. 333–417.
- Péwé, T.L., 1965, Delta River area, Alaska Range, *in* Péwé, T.L., Ferrians, O.J., Jr., Nichols, D.R., and Karlstrom, T.N.V., eds., Guidebook for Field Conference F. Central and south-central Alaska; International Association for Quaternary Research, 17th Congress, U.S.A. 1965: Lincoln, Nebraska Academy of Science, p. 55–93.
- Péwé, T.L., 1966, Permafrost and its effect on life in the north, *in* Hansen, H.P., ed., Arctic biology, 2nd ed.: Proceedings, 18th Annual Biology Colloquium: Corvallis, Oregon State University Press (1957 edition revised by author); also republished as booklet, 40 p.
- Péwé, T.L., 1969, Terrasses d'altiplanation due Quaternaire ancien et moyen, Fairbanks, Alaska [abs.]: Proceedings, International Association for Quaternary Research, 8th Congress, Paris, France, 1969, p. 41.
- Péwé, T.L., 1974, Permafrost: Encyclopedia Britannica, v. 14, p. 89-95.
- Péwé, T.L., 1974, Geomorphic processes in polar deserts, *in* Smiley, T.L., and Zumberge, J.H., eds., Polar deserts: Tucson, University of Arizona Press, p. 33–52.
- Péwé, T.L., 1975, Quaternary stratigraphic nomenclature in central Alaska: U.S. Geological Survey Professional Paper 862, 32 p.
- Péwé, T.L., 1975, Quaternary geology of Alaska: U.S. Geological Survey Professional Paper 835, 145 p.
- Péwé, T.L., 1976, Permafrost, in 1976 Yearbook of Science and Technology: New York, McGraw Hill, p. 32-47.

- Péwé, T.L., 1982, Geologic hazards and their effect on man; Fairbanks area, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Special Report 15, 150 p.
- Péwé, T.L., 1983, Alpine permafrost in the contiguous United States; A review: Arctic and Alpine Research, v. 15, no. 2, p. 145–156.
- Péwé, T.L., 1983, The periglacial environment in North America during Wisconsin time, *in* Porter, S.C., ed., The late Pleistocene, v. I of Wright, H.E., Jr., ed., Late Quaternary environments of the United States: Minneapolis, University of Minnesota Press, p. 157–189.
- Péwé, T. L., 1989, Quaternary stratigraphy of the Fairbanks area, Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 72–77.
- Péwé, T.L., and Bell, J.W., 1975, Map showing distribution of permafrost in the Fairbanks D-1 SW quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–671A, scale 1:24,000.
- Péwé, T.L., and Bell, J.W., 1975, Map showing distribution of permafrost in the Fairbanks D-2 NE quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–670A, scale 1:24,000.
- Péwé, T.L., and Bell, J.W., 1975, Map showing distribution of permafrost in the Fairbanks D-2 NW quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–668A, scale 1:24,000.
- Péwé, T.L., and Bell, J.W., 1975, Map showing distribution of permafrost in the Fairbanks D-2 SE quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–669A, scale 1:24,000.
- Péwé, T.L., and Bell, J.W., 1975, Map showing distribution of permafrost in the Fairbanks D-2 SW quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–829B, scale 1:24,000.
- Péwé, T.L., and others, 1953, Multiple glaciation in Alaska: U.S. Geological Survey Circular 289, 13 p.
- Péwé, T.L., and Reger, R.D., 1989, Middle Tanana River valley, *in* Péwé, T.L., and Reger, R.D., eds., Quaternary geology and permafrost along the Richardson and Glenn Highways between Fairbanks and Anchorage, Alaska; 28th International Geological Congress Field Trip Guidebook T102: American Geophysical Union, p. 17–24.
- Péwé, T.L., Bell, J.W., Forbes, R.B., and Weber, F.R., 1976 Geologic map of the Fairbanks D-2 SE quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–942, scale 1:24,000.
- Péwé, T.L., Bell, J.W., Williams, J.R., and Paige, R.A., 1976, Geologic map of the Fairbanks D-1 SW quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–949, scale 1:24,000.
- Péwé, T.L., Wahrhaftig, Clyde, and Weber, Florence, 1966, Geologic map of the Fairbanks quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map I–455, scale 1:250,000.
- Phillips, R.L., Grantz, A., Mullen, M.W., Poore, R.Z., and Reick, H.G., 1992, Climatically controlled sedimentation—glacial-interglacial cycles from Northwind Ridge, Arctic Ocean, *in* 22nd Arctic Workshop, University of Colorado, March 1992, Program and Abstracts: Boulder, University of Colorado Institute of Arctic and Alpine Research, p. 116.
- Pickthorn, L.B., Vallier, T.L., and Scholl, D.W., 1984, Geochronology of igneous rocks from the Aleutian Island are [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 328–329.
- Pierce, K.L., Obradovich, J.D., and Friedman, I., 1976, Obsidian hydration dating and correlation of Bull Lake and Pinedale Glaciations near West Yellowstone, Montana: Geological Society of America Bulletin, v. 87, p. 703–710.
- Pinney, D.S., and Beget, J.E., 1991, Deglaciation and latest Pleistocene and early Holocene glacier readvances on the Alaska Peninsula, *in* Weller, G., Wilson, C.L., and Severin, B.A.B., eds., International Conference on the Role of the Polar Regions in Global Change, University of Alaska, June 1990: Fairbanks, University of Alaska, v. II, p. 634–640.
- Pitman, W.C., 111, and Talwani, M., 1972, Sea-floor spreading in the North Atlantic: Geological Society of America Bulletin, v. 83, p. 619–646.
- Plafker, G., 1965, Tectonic deformation associated with the 1964 Alaska earthquake: Science, v. 148, p. 1675–1687.
- Plafker, G., 1967, Geologic map of the gulf of Alaska Tertiary Province, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–484, 1 sheet, scale 1:500,000.
- Plafker, G., 1967, Surface faults on Montague Island associated with the 1964 Alaska earthquake: U.S. Geological Survey Professional Paper 543–G, 42 p.
- Plafker, G., 1969, Tectonics of the March 27, 1964, Alaska earthquake: U.S. Geological Survey Professional Paper 543–1, 74 p.

- Plafker, G., 1971, Petroleum and coal, *in* MacKevett, E.M., Jr., Brew, D.A., Hawley, C.C., Huff, L.C., and Smith, J.G., eds., Mineral resources of Glacier Bay National Monument, Alaska: U.S. Geological Survey Professional Paper 632, p. 85–89.
- Plafker, G., 1971, Pacific margin Tertiary basin, *in* Cram, I.H., ed., Petroleum provinces of North America: American Petroleum Geologists Memoir 15, p. 120–135.
- Plafker, G., 1974, Preliminary geologic map of Kayak and Wingham Islands, Alaska: U.S. Geological Survey Open-File Report 74–82, scale 1:31,680.
- Plafker, G., 1974, Gulf of Alaska coastal zone, *in* Spencer, A.M., ed., Mesozoic Cenozoic orogenic belts; data for orogenic studies: Geological Society of London Special Publication 4, p. 573–576.
- Plafker, G., 1981, Late Cenozoic glaciomarine deposits of the Yakataga Formation, Alaska, *in* Hambrey, M.J., and Harland, W.B., eds., Earth's prePleistocene glacial record: New York, Cambridge University Press, p. 694–699.
- Plafker, G., 1983, The Yakutat block, an active tectonostratigraphic terrane in southern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 406.
- Plafker, G., 1984, Comment on 'Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska': Geology, v. 12, p. 563.
- Plafker, G., 1987. Regional geology and petroleum potential of the northern Gulf of Alaska continental margin, *in* Scholl, D. W., Grantz, A., and Vedder, J. G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins—Beaufort Sea to Baja Calif.: Houston, Tex., Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series, v. 6, p. 229–268.
- Plafker, G., 1990, Regional geology and tectonic evolution of Alaska and adjacent parts of the northeast Pacific Ocean margin: Proceedings of the Pacific Rim Congress 90: Queensland, Australia, Australasian Institute of Mining and Metallurgy, p. 841–853.
- Plafker, G., and Addicott, W.O., 1976, Glaciomarine deposits of Miocene through Holocene age in the Yakataga Formation along the Gulf of Alaska margin, Alaska, *in* Miller, T.P., ed., Recent and ancient sedimentary environments in Alaska: Anchorage, Alaska Geological Society, p. Ql–Q23.
- Plafker, G. and Berg, H.C., 1994, An overview of the geology and tectonic evolution of Alaska, *in* Plafker, G. and Berg, H.C., eds., The Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v.G1, p. 989–1021.
- Plafker, G., and Campbell, R.B., 1979, The Border Ranges fault in the Saint Elias Mountains, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B102–B104.
- Plafker, G., and Claypool, G.E., 1979, Petroleum source rock potential or rocks dredged from the continental slope in the eastern Gulf of Alaska: U.S. Geological Survey Open-File Report 79–295, 24 p.
- Plafker, G., and Hudson, T., 1980, Regional implications of Upper Triassic metavolcanic and metasedimentary rocks on the Chilkat Peninsula, southeastern Alaska: Canadian Journal of Earth Sciences, v. 17, p. 681–689.
- Plafker, G. and Jacob, K.H., 1985, Seismic sources in Alaska: *in* Hays, W.W. and Gori, P.L., eds., Proceedings of a workshop on Evaluation of Regional and Urban Earthquake Hazards and Risk in Alaska: U.S. Geological Survey Open-File Report 86–79, p. 76–82.
- Plafker, G., and Lanphere, M.A., 1974, Radiometrically dated plutons cutting the Orca Group, *in* Carter, Claire, ed., U.S. Geological Survey Alaskan Program, 1974: U.S. Geological Survey Circular 700, p. 53.
- Plafker, G., and MacKevett, E.M., Jr., 1970, Mafic and ultramafic rocks from a layered pluton at Mt. Fairweather, Alaska: U.S. Geological Survey Professional Paper 700–B, p. B21.
- Plafker, G., and Miller, D.J., 1957, Reconnaissance geology of the Malaspina District, Alaska: U.S. Geological Survey Oil and Gas Investigations Map OM–189, scale 1:125,000.
- Plafker, G., and Rubin, M., 1967, Vertical tectonic displacements in south-central Alaska during and prior to the great 1964 earthquake: Osaka City University, Journal of Geosciences, v. 10, art. 1–7, p. 1–14.
- Plafker, G., and Rubin, M., 1978, Uplift history and earthquake recurrence as deduced from marine terraces on Middleton Island, Alaska, *in* Proceedings of Conference VI, Methodology for identifying seismic gaps and soon-to-break gaps: U.S. Geological Survey Open-File Report 78–943, p. 687–721.
- Plafker, G., and Rubin, M., 1992, "Yo-Yo" tectonics above the eastern Aleutian subduction zone: coseismic uplift alternating with even larger interseismic subsidence [expanded abs.]: Proceedings of the Wadati Conference on Great Subduction Earthquakes, Geophysical Institute, University of Alaska, Fairbanks, Alaska, p. 90–91.

- Plafker, G., and Thatcher, W., 1982, Geological and geophysical evaluation of the mechanisms of the great 1899-1900 Yakutat Bay, Alaska, earthquakes [abs.]: Program and Abstracts, AGU Conference on fault behavior and the earthquake generating process, Snowbird, Utah, Oct. 11-15, 1982.
- Plafker, G., Blome, C.D., and Silberling, N.J., 1989, Reinterpretation of lower Mesozoic rocks on the Chilkat Peninsula, Alaska, as a displaced fragment of Wrangellia: Geology, v. 17, p. 3–6.
- Plafker, G., Bruns, T.R., and Page, R.A., 1975, Interim report on petroleum resource potential and geologic hazards in the outer continental shelf of the Gulf of Alaska Tertiary province: U.S. Geological Survey Open-File Report 75–592, 74 p.
- Plafker, G., Bruns, T.R., Winkler, G.R., and Tysdal, R.G., 1982, Cross section of the eastern Aleutian arc, from Mount Spurr to the Aleutian Trench near Middleton Island, Alaska: Geological Society of America Map and Chart Series MC–28P, scale 1:250,000.
- Plafker, G., Detterman, R.L., and Hudson, T., 1975, New data on the displacement history of the Lake Clark fault: *in* Cobb, E.H., ed., The United States Geological Survey in Alaska: accomplishments during 1975, U.S. Geological Survey Circular 722, p. 44–45.
- Plafker, G. Gilpin, L.M., and Lahr, J.C., 1994, Neotectonic map of Alaska, *in* Plafker, G. and Berg, H.C., eds., The Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G1, pl. 12, scale 1:2500, 000 with tables and text.
- Plafker, G., Harris, A. G., and Reed, K. M., 1985, Early Pennsylvanian conodonts from the Strelna Formation, Chitina Valley area, *in* Bartsch-Winkler, S., ed., The U.S. Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 71–74.
- Plafker, G., Hudson, T., and Richter, D.H., 1977, Preliminary observations on late Cenozoic displacements along the Totschunda and Denali fault systems: *in* Blean, K.M., ed., Geologic studies in Alaska by the U.S. Geological Survey during 1976: U.S. Geological Survey Circular 751–B, p. B67–B69.
- Plafker, G., Hudson, T., Bruns, T.R., and Rubin, M., 1978, Late Quaternary offsets along the Fairweather fault and crustal plate interactions in southern Alaska: Canadian Journal of Earth Sciences, v. 15, no. 5, p. 805–816.
- Plafker, G., Hudson, T., Rubin, M., and Dixon, K.L., 1982, Holocene marine terraces and uplift history in the Yakataga seismic gap near Icy Cape, Alaska, *in* Coonrad, W. L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 111–115.
- Plafker, G., Jones, D.L., and Pessagno, E.A., Jr., 1977, A Cretaceous accretionary flysch and melange terrane along the Gulf of Alaska margin, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B41–B43.
- Plafker, G., Jones, D.L., Hudson, T., and Berg, H.C., 1976, The Border Ranges fault system in the Saint Elias Mountains and Alexander Archipelago, *in* Cobb, E.H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U.S. Geological Survey Circular 733, p. 14–16.
- Plafker, G., Keller, G., Barron, J.A., and Blueford, J.R., 1985, Paleontologic data on the age of the Orca Group Alaska: U.S. Geological Survey Open-File Report 85–429, 24 p.
- Plafker, G., Keller, G., Nelson, S.W., Dumoulin, J.A., and Miller, M.L., 1985, Summary of data on the age of the Orca Group, Alaska, *in* Bartsch-Winkler, Susan, ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 74–76.
- Plafker, G., LaJoie, K.R., and Rubin, M., 1992, Determining recurrence intervals of great subduction zone earthquakes in southern Alaska by radiocarbon dating: *in* Taylor, R.E., Long, Austin, and Kra, R.S., eds., Radiocarbon After Four Decades, An Interdisciplinary Perspective, New York, Springer-Verlag, p. 436–453.
- Plafker, G., Lull, J.S., Nokleberg, W.J., Pessel, G.H., Wallace, W.K., and Winkler, G.R., 1989, Geologic map of the Valdez A-4, B-3, B-4, C-3, C-4, and D-4 quadrangles, northern Chugach Mountains and southern Copper River Basin, Alaska: U.S. Geological Survey Open-File Report 89–569, 1 sheet, scale 1 125,000.
- Plafker, G., Moore, J.C., Winkler, G.R., and Decker, J.E., Jr., 1994, Geology of the southern Alaska continental margin, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G–1, p. 989–1021.
- Plafker, G., Naeser, C.W., Zimmermann, R.A., Lull, John, and Hudson, Travis, 1992, Cenozoic uplift history of the Mount McKinley area in the central Alaska Range based on fission-track dating: *in* Bradley, D.C., and Dusel-Bacon, Cynthia, eds., Geologic studies in Alaska by the U. S. Geological Survey, 1991: U. S. Geological Survey Bulletin 2041, p. 202–212.

- Plafker, G., Nokleberg, W.J., and Lull, J.S., 1985, Summary of 1984 TACT geologic studies in the northern Chugach Mountains and southern Copper River basin, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 967, p. 76–79.
- Plafker, G., Nokleberg, W. J., and Lull, J. S., 1989, Bedrock geology and tectonic evolution of the Wrangellia, Peninsular, and Chugach terranes along the Trans-Alaska crustal transect in the Chugach Mountains and southern Copper River Basin, Alaska: Journal of Geophysical Research, v.94, no. B4, p. 4255–4295.
- Plafker, G., Nokleberg, W.J., Roeske, S.M., and Winkler, G.R., 1986, Nature and timing of deformation along the Contact fault system in the Cordova, Bering Glacier, and Valdez quadrangles, *in* Bartsch-Winkler, S., and Reed, K., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 74–77.
- Plafker, G., Richter, D.H., and Hudson, T., 1977, Reinterpretation of the origin of inferred Tertiary tillite in the northern Wrangell Mountains, Alaska, in Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B. p. B52–B54.
- Plafker, George, Winkler, G.L., Coonrad, W.W., and Claypool, George, 1980, Preliminary report on the geology of the continental slope adjacent to OCS Lease Sale 55, eastern Gulf of Alaska: Petroleum resource implications: U.S. Geological Survey Open-File Report 80–1089, 72 p.
- Plank, T., and Langmuir, C.H., 1988, An evaluation of the global variations in the major element chemistry of arc basalts: Earth and Planetary Science Letters, v. 90, p. 349–370.
- Plank, T., and Langmuir, C.H., 1993, Tracing trace elements from sediment input to volcanic output at subduction zones: Nature, v. 362, p. 739–742.
- Plouff, Donald, 1977, Preliminary documentation for a FORTRAN program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report 77–535, 44 p.
- Plumley, P.W., 1984, A paleomagnetic study of the Prince William terrane and Nixon Fork terrane, Alaska: Santa Cruz, University of California, Ph.D. dissertation, 190 p.
- Plumley, P.W., and Coe, R.S., 1982, Paleomagnetic evidence for reorganization of the north Cordilleran borderland in Late Paleozoic time [abs.]: Geological Society of America Abstracts with Programs, v. 14, p. 224.
- Plumley, P.W., and Coe, R.S., 1983, Paleomagnetic data from Paleozoic rocks of the Nixon Fork terrane, Alaska, and their tectonic implications [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 428.
- Plumley, P.W., and Plafker, G., 1985, Additional estimate of paleolatitude for the Paleocene/Eocene(?) Prince William terrane Orca volcanics [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 401.
- Plumley, P.W., and Reusing, S., 1984, Paleomagnetic investigation of Paleozoic carbonates, York Terrane, Seward Peninsula [abs.]: EOS (Transactions of the American Geophysical Union), v. 65, no. 45, p. 869.
- Plumley, P.W., and Vance, Margaret, 1988, Porcupine River basalt field, northeast Alaska: Age, paleomagnetism, and tectonic significance [abs.] EOS, (Transactions of the American Geophysical Union), v. 69, no. 44, p. 1458.
- Plumley, P.W., Coe, R.S., and Byrne, T., 1983, Paleomagnetism of the Paleocene Ghost Rocks Formation, Prince William terrane, Alaska: Tectonics, v. 2, p. 295–314.
- Plumley, P.W., Coe, R.S., Byrne, T., Reid, M.R., and Moore, J.C., 1982, Palaeomagnetism of volcanic rocks of the Kodiak Islands indicates northward latitudinal displacement: Nature, v. 300, p. 50–52.
- Plumley, P.W., Coe, R.S., Patton, W.W., and Moll, E.J., 1981, Paleomagnetic study of the Nixon Fork terrane, west-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 13, p. 530.
- Poncet, J., and Blodgett, R.B., 1987, First recognition of the Devonian alga *Lancicula sergaensis* Shuysky in North America (west-central Alaska): Journal of Paleontology, v. 61, p. 1269–1273.
- Pope, R., 1983, The petrology of ultramafic and mafic xenoliths from Kanaga Island, the central Aleutians: Ithaca, New York, Cornell University, Master's thesis, 121 p.
- Poreda, R., Craig, H., and Motyka, R., 1981, Helium isotope variations along the Alaskan-Aleutian arc: EOS (Transactions of the American Geophysical Union), v. 62, p. 1092.
- Porter, L., 1985, Late Pleistocene fauna of Lost Chicken Creek, Alaska: Pullman, Washington State University, Ph.D. dissertation, 173 p.
- Porter, S.C., 1962, Geology of the Anaktuvuk Pass, central Brooks Range, Alaska: Yale University, Ph.D. dissertation, 276 p., scale 1:31,680.

- Porter, S.C., 1964, Late Pleistocene glacial chronology of north-central Brooks Range, Alaska: American Journal of Science, v. 262, p. 446–460.
- Porter, S.C., Pierce, K.L., and Hamilton, T.D., 1983, Late Wisconsin mountain glaciation in the western United States, *in* Wright, H.E., Jr., and Porter, S.C., eds., Late Quaternary environments of the United States, v. 1: Minneapolis, University of Minnesota Press, p. 71–111.
- Potter, A.W., 1984, Paleobiogeographical relations of Late Ordovician brachiopods from the York and Nixon Fork terranes, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 626.
- Potter, A.W., and Blodgett, R.B., 1992, Paleobiogeographic relations of Ordovician brachiopods from the Nixon Fork terrane, west-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 24, no. 5, p. 76.
- Potter, A.W., Gilbert, W.G., Ormiston, A.R., and Blodgett, R.B., 1980, Middle and Upper Ordovician brachiopods from Alaska and northern California and their paleogeographic implications [abs.]: Geological Society of America Abstracts with Programs, v. 12, p. 147.
- Poulton, T.P., 1978, Pre-Late Oxfordian Jurassic biostratigraphy of northern Yukon and adjacent Northwest Territories, *in* Stelck, C.R., and Chatterton, B.D.E., eds., Western and Arctic Canadian biostratigraphy: Geological Association of Canada Special Paper 18, p. 445–472.
- Powell, R.D., and Molnia, B.F., 1989, Glacimarine and sedimentary processes, facies, and morphblogy of the south-southeast Alaska shelf and gords: Marine Geology, v. 85, p. 359–390.
- Powers, H.A., Coats, R.R., and Nelson, W.H., 1960, Geology and submarine physiography of Amchitka Island, Alaska: U.S. Geological Survey Bulletin 1028–P, p. 521–554.
- Pratt, R.M., Rutstein, M.S., Walton, F.W., and Buschur, J.A., 1972, Extension of Alaskan structural trends beneath Bristol Bay, Bering Shelf, Alaska: Journal of Geophysical Research, v. 77, p. 4994–4999.
- Price, L.W., 1972, The periglacial environment, permafrost, and man: Association of American Geographers, Commission on College Geography Resource Paper 14, 88 p.
- Price, R.A., and Carmichael, D.M., 1986, Geometric test for Late Cretaceous Paleogene intracontinental transform faulting in the Canadian Cordillera: Geology, v. 14, p. 468–471.
- Prindle, L.M., 1905, The gold placers of the Fortymile, Birch Creek, and Fairbanks regions, Alaska: U.S. Geological Survey Bulletin 251, 89 p.
- Prindle, L.M., 1906, The Yukon-Tanana region, Alaska; Description of Circle quadrangle: U.S. Geologic Survey Bulletin 295, 27 p., 1 pl.
- Prindle, L.M., 1909, The Fortymile quadrangle, Yukon-Tanana region, Alaska: U.S. Geological Survey Bulletin 375, 52 p.
- Prindle, L.M., 1913, A geologic reconnaissance of the Circle quadrangle, Alaska: U.S. Geological Survey Bulletin 538, 82 p.
- Prindle, L.M., 1913, A geologic reconnaissance of the Fairbanks quadrangle, Alaska: U.S. Geological Survey Bulletin 525, 220 p.
- Prindle, L.M., and Katz, F.J., 1913, Geology of the Fairbanks district, *in* Prindle, L.M., ed., A geologic reconnaissance of the Fairbanks quadrangle, Alaska: U.S. Geological Survey Bulletin 525, p. 59–152.
- Puchner, C.C., 1984, Intrusive geology of the Ray Mountains batholith [abs.]: Geological Society of America Abstracts with Programs, v. 16, no. 5, p. 329.
- Puchner, C.C., 1986, Geology, alteration, and mineralization of the Kougarok Sn deposit, Seward Peninsula, Alaska: Economic Geology, v. 81, no. 7, p. 1775–1794.
- Pulpan, H. and Kienle, F., 1979, Western Gulf of Alaska seismic risk: Proceedings of the 11th Offshore Technology Conference, Houston, Tex., p. 2209–2218.
- Purington, C.W., 1905, Methods and costs of gravel and placer mining in Alaska: U.S. Geological Survey Bulletin 263, 273 p.
- Ragan, D.M., and Hawkins, J.W., Jr., 1966, A polymetamorphic complex in the eastern Alaska Range: Geological Society of America Bulletin, v. 77, no. 6, p. 597–604.
- Rainy, F., and Ralph, E.K., 1959, Radiocarbon dating in the Arctic: American Antiquity, v. 24, no. 4, pt. 1, p. 365–374.
- Raisz, E., 1948, Land form map of Alaska: Cambridge, Massachusetts, Harvard University Institute of Geographical Exploration, 1 sheet, scale approx. I:3,000,000.

- Ramsey, J.P., 1981, Geology-coal resources and mining plan for the Chuitna River field, Alaska, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21 23, 1980): University of Alaska, Mineral Industries Research Laboratory Report no. 50, p. 111–121.
- Rao, P.D., and Wolff, E.N., 1981, Petrological, mineralogical, and chemical characterizations of certain Alaskan coals and washability products, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21-23, 1980): University of Alaska, Mineral Industries Research Laboratory Report no. 50, p. 194–235.
- Rapp, R.P., 1990, Vapor-absent partial melting of amphibolite/eclogite at 8-32 kbar: Implications for the origin and growth of the continental crust: Troy, N.Y., Rensselaer Polytechnic Institute, Ph.D. dissertation.
- Rarrie, T.C.P., 1984, The geology of the Khayyam and Stumble-On deposits, Prince of Wales Island, Alaska: Austin, Tex., University of Texas, Master's thesis, 172 p.
- Rarrie, T.C.P., 1984, Geology of the Khayyam and Stumble-On massive sulfide deposits, Prince of Wales Island, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 268.
- Rattey, R.P., 1985, Northeastern Brooks Range, Alaska; New evidence for complex thin-skinned thrusting: American Association of Petroleum Geologists Bulletin, v. 69, p. 676–677.
- Rau, W.W., Plafker, G., and Winkler, G.R., 1977, Preliminary foraminiferal biostratigraphy and correlation of selected stratigraphic sections and wells in the Gulf of Alaska Tertiary province: U.S. Geological Survey Open-File Report 77–747, 54 p.
- Rau, W.W., Plafker, G., and Winkler, G.R., 1983, Foraminiferal biostratigraphy and correlations in the Gulf of Alaska Tertiary province: U.S. Geological Survey Oil and Gas Investigations Chart OC–120, 11 p., 3 sheets.
- Rawlinson, S.E., 1993, Surficial geology and morphology of the Alaskan central Arctic Coastal Plain: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Report of Investigations 93–1, 172 p.
- Ray, P.H., 1885, Report of the International Polar Expedition to Point Barrow, Alaska: Washington, D.C., U.S. Government Printing Office, 695 p.
- Ray, R.G., 1954, Geology and ore deposits of the Willow Creek mining district, Alaska: U.S. Geological Survey Bulletin 1004, 86 p.
- Rea, D.K., and Duncan, R.A., 1986, North Pacific plate convergence; A quantitative record of the past 140 m.y.: Geology, v. 14, p. 373–376.
- Rea, D.K., and Schrader, H., 1985, Late Pliocene onset of glaciation; Ice-rafting and diatom stratigraphy of North Pacific DSDP cores: Palaeogeography, Palaeoclimatology, Palaeoecology, v. 49, p. 313–325.
- Read, J.J., and Meinert, L.D., 1986, Gold-bearing quartz vein mineralization at the Big Hurrah mine, Seward Peninsula, Alaska: Economic Geology, v. 81, p. 1760–1774.
- Redman, E., 1981, The Keete Inlet thrust fault, Prince of Wales Island: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report 73, p. 17–18.
- Redman, E., 1986, An unconformity with associated conglomeratic sediments in the Berners Bay area of southeast Alaska: Fairbanks, Alaska Divison of Geological and Geophysical Surveys Professional Report 86, p. 1–4.
- Redman, E., Retherford, R.M., and Hickok, B.D., 1984, Geology and geochemistry of the Skagway B-2 quadrangle, southeastern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–31, 34 p.
- Reed, B.L., 1968, Geology of the Lake Peters area, northeastern Brooks Range, Alaska: U.S. Geological Survey Bulletin 1236, 132 p.
- Reed, B.L., and Eberlein, G.D., 1972, Massive sulfide deposits near Shellebarger Pass, southern Alaska Range: U.S. Geological Survey Bulletin 1342, 45 p.
- Reed, B.L., and Gamble, B.M., 1988, Preliminary geologic map of the Lime Hills quadrangle, Alaska: unpublished U.S. Geological Survey administrative report.
- Reed, B.L., and Lanphere, M.A., 1969, Age and chemistry of Mesozoic and Tertiary plutonic rocks in south-central Alaska: Geological Society of America Bulletin, v. 80, p., no. 1, 23–44.
- Reed, B.L., and Lanphere, M.A., 1972, Generalized geologic map of the Alaska-Aleutian Range batholith showing potassium-argon ages of the plutonic rocks: U.S. Geological Survey Miscellaneous Field Studies Map MF–372. 2 sheets, scale 1:1,000,000.

- Reed, B.L., and Lanphere, M.A., 1973, Alaska Aleutian Range batholith: Geochronology, chemistry, and relation to Circum-Pacific plutonism: Geological Society of America Bulletin, v. 84, p. 2583–2610.
- Reed, B.L., and Lanphere, M.A., 1974, Chemical variations across the Alaska-Aleutian Range batholith: U.S. Geological Survey Journal of Research, v. 2, no. 3, p. 343–352.
- Reed, B.L., and Lanphere, M.A., 1974, Offset plutons and history of movement along the McKinley segment of the Denali fault system, Alaska: Geological Society of America Bulletin, v. 85, p. 1883–1892.
- Reed, B.L., and Lanphere, M.A., 1979, Terrestrial heat flow in the Kuril-Kamchatka, and Aleutian provinces; 1, Heat flow and tectonics: Moscow, Akademiya Nauk SSSR, Vulkanologiya i Seismologiya no. 1, p. 59–73.
- Reed, B.L., and Nelson, S.W., 1978, Geologic map of the Talkeetna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–870–A, scale 1:250,000.
- Reed, B.L., and Nelson, S.W., 1980, Geologic map of the Talkeetna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1174A, 15 p., 1 sheet, scale 1:250,000.
- Reed, B.L., and Miller, T.P., 1980, Uranium and thorium content of some Tertiary granitic rocks in the southern Alaska Range: U.S. Geological Survey Open-File Report 80–1052, 15 p.
- Reed, B.L., Miesch, A.T., and Lanphere, M.A., 1983, Plutonic rocks of Jurassic age in the Alaska Aleutian Range batholith; Chemical variations and polarity: Geological Society of America Bulletin, v. 94, p. 1232–1240.
- Reed, B.L., Miesch, A.T., and Lanphere, M.A., 1983, Plutonic rocks of Jurassic age in the Alaska–Aleutian Range batholith; Chemical variations and polarity: Geological Society of America Bulletin, v. 94, p. 1232–1240.
- Reed, J.C., and Coats, R.R., 1941, Geology and ore deposits of the Chichagof mining district, Alaska: U.S. Geological Survey Bulletin 929, 148 p.
- Reed, K.M., Blome, C.D., Gilbert, W.G., and Solie, D.N., 1985, Jurassic radiolaria from the Lime Hills quadrangle, *in* Bartsch-Winkler S., and Reed, K. M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 53–54.
- Reger, R.D., 1979, Glaciation of Indian Mountain, west-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 61, p. 15–18.
- Reger, R.D., 1991, Deglaciation of the Allison-Sawmill Creeks area, southern shore of Port Valdez, Alaska, *in* Reger, R.D., ed., Short Notes on Alaskan Geology 1991: Fairbanks, Alaska Division of Geologieal and Geophysical Surveys, Professional Report 111, p. 55–61.
- Reger, R.D., and Bundtzen, T.K., 1990, Multiple glaciation and gold-placer formation, Valdez Creek Valley, western Clearwater Mountains, Alaska: Fairbanks, Alaska Division of Geologieal and Geophysical Surveys, Professional Report 107, 29 p.
- Reger, R.D., and Pinney, D.S., 1993, Late Wisconsin glaciation of the Cook Inlet region with emphasis on Kenai Lowland and implications for early peopling, *in* Davis, N., ed., Symposium on the Anthropology of Cook Inlet: Cook Inlet Historical Society [in press].
- Reger, R.D., and Updike, R.G., 1983, Upper Cook Inlet region and the Matanuska valley, *in* Péwé, T.L., and Reger, R.D., eds., Richardson and Glenn Highways, Alaska; Guidebook to permafrost and Quaternary geology: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 1, p. 185–263.
- Reger, R.D., and Updike, R.G., 1989, Upper Cook Inlet region and Matanuska valley, *in* Péwé, T.L., and Reger, R.D., eds., Quaternary geology and permafrost along the Richardson and Glenn Highways between Fairbanks and Anchorage, Alaska, in 28th International Geological Congress Field Trip Guidebook T102: American Geophysical Union, p. 45–54.
- Reid, H.F., 1896, Glacier Bay and its glaciers: U.S. Geological Survey Annual Report 1894–95, v. 16, part 1, p. 421–461.
- Reifenstuhl, R.R., 1983, A geological and geophysical study of the Goddard hot springs area, Baranof Island, southeast Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 113 p., 1 sheet, scale 1:250,000.
- Reifenstuhl, R.R., Decker, J.E., Jr., and Coonrad, W.L. 1985, Compilation of geologic data from the Taylor Mountains D-4 quadrangle, southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 85–2, scale 1:63,360.
- Reifenstuhl, R.R., Decker, J.E., Jr., and Coonrad, W.L., 1985, Compilation of geologic data from the Taylor Mountains D-8 quadrangle, southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 85–4, scale 1:63,360.

- Reifenstuhl, R.R., Robinson, M.S., Smith, T.E., Albanese, M.D., and Allegro, G.A., 1984, Geologic map of the Sleetemute B-6 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–12, scale 1:63,360.
- Reinink-Smith, L.M., 1990, Relative frequency of Neogene volcanic events as recorded in coal partings from the Kenai lowland, Alaska; A comparison with deep-sea core data: Geological Society of America Bulletin, v. 102, p. 830–840.
- Reinink-Smith, L.M., 1990, Mineral assemblages of volcanic and detrital partings in Tertiary coal beds, Kenai Peninsula, Alaska: Clays and Clay Minerals, v. 38, p 97–108.
- Reiser, H.N., 1970, Northeastern Brooks Range–a surface expression of the Prudhoe Bay section, in North Slope of Alaska: American Association of Petroleum Geologists Pacific section Proceedings, p. K1–K13.
- Reiser, H.N., Brosgé, W.P., Dutro, J.T., Jr., and Detterman, R.L., 1971, Preliminary geologic map of the Mount Michelson quadrangle, Alaska: U.S. Geological Survey Open-File Report 71–237, scale 1:250,000.
- Reiser, H.N., Brosgé, W.P., Dutro, J.T., Jr., and Detterman, R.L., 1974, Preliminary geologic map of the Demarcation Point quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–610, 1 sheet, scale 1:250,000.
- Reiser, H.N., Brosgé, W.P., Dutro, J.T., Jr., and Detterman, R.L., 1980, Geologic map of the Demarcation Point quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–1133, scale 1:250,000.
- Reiser, H.N., Dutro, J.T., Jr., Brosgé, W.P., Armstrong, A.K., and Detterman, R.L., 1970, Progress map, geology of the Sadlerochit and Shublik Mountains, Mount Michelson C-1, C-2, C-3, and C-4 quadrangles, Alaska: U.S. Geological Survey Open-File Report 70–273, scale 1:63,360, 5 sheets.
- Reiser, H.N., Lanphere, M.A., and Brosgé, W.P., 1965, Jurassic age of a mafic igneous complex, Christian quadrangle, Alaska, *in* Geological Survey research 1965: U.S. Geological Survey Professional Paper 525–C, p. C68–C71.
- Reiser, H.N., Norris, D.K., Dutro, J.T., Jr., and Brosgé, W.P., 1978, Restriction and renaming of the Neruokpuk Formation, northeastern Alaska, *in* Sohl, N.F., and Wright, W.B., eds., Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1977, Contributions to stratigraphy: U. S. Geological Survey Bulletin 1457–A, p. A106–A107.
- Repenning, C.A., and Brouwers, E.M., 1992, Late Pliocene-early Pleistocene ecological changes in the Arctic Ocean borderland: U.S. Geological Survey Bulletin 2036, 37 p.
- Repetski, J.E., Carter, C., Harris, A.G., and Dutro, J.T., Jr., 1987, Ordovician and Silurian fossils from the Doonerak anticlinorium, central Brooks Range, Alaska, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 40–42.
- Richards, M.A., Jones, D.L., Duncan, R.A., and De Paolo, D.J., 1991, A mantle plume initiation model for the Wrangellia flood basalt and other oceanic plateaus: Science, v. 254, p. 263–267.
- Richardson, J., 1841, On the frozen soil of North America: Edinburgh, New Philosophical Journal, v. 30, p. 110–123.
- Richardson, J., 1854, The zoology of the voyage of H.M.S. *Herald*, under Captain Henry Kellet, during the years of 1845 51: London, p. 1–8, 61.
- Richmond, G.M., and Fullerton, D.S., 1986, Introduction to Quaternary glaciations in the United States of America, in Richmond, G.M., and Fullerton, D.S., eds., Quaternary glaciations in the United States of America: Quaternary Science Reviews, v. 5, Quaternary glaciations in the Northern Hemisphere, p. 3–10.
- Richter, D.H., 1965, Geology and mineral deposits of central Knight Island, Prince William Sound, Alaska: Fairbanks, Alaska Division of Mines and Minerals Geologic Report 16, 37 p.
- Richter, D.H., 1967, Geology of the upper Slana-Mentasta Pass area, southcentral Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report 30, 25 p.
- Richter, D.H., 1970, Geology and lode-gold deposits of the Nuka Bay area, Kenai Peninsula, Alaska: U.S. Geological Survey Professional Paper 625–B, p. B1–B16.
- Richter, D.H., 1970, A corundum occurrence in the eastern Alaska Range, Alaska, *in* Geological Survey research 1970: U.S. Geological Survey Professional Paper 700–C, p. C98–C102.
- Richter, D.H., 1972, Reconnaissance geologic map of the Nabesna A-4 quadrangle, Alaska: U.S. Geological Survey Open-File Report [72–313], 1 sheet, scale 1:63,360.
- Richter, D.H., 1975, Reconnaissance geologic map of the Nabesna B-3 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map I–904, 1 sheet, scale 1:63,360.
- Richter, D. H., 1976, Geologic map of the Nabesna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigation Series Map 1–932, scale 1:250,000.

- Richter, D.H., and Dutro, J.T., Jr., 1975, Revision of the type Mankommen Formation (Pennsylvanian and Permian), Eagle Creek area, eastern Alaska Range, Alaska: U.S. Geological Survey Bulletin 1395–B, p. B1–B25.
- Richter, D.H., and Jones, D.L., 1973, Structure and stratigraphy of eastern Alaska Range, Alaska, *in* Arctic geology: American Association of Petroleum Geologists Memoir 19, p. 408–420.
- Richter, D.H., and Jones, D.L., 1973, Reconnaissance geologic map of the Nabesna A-2 quadrangle, Alaska: U.S. Geological Survey Miscellaneous Geologic Invesigations Map 1–749, scale I:63,360.
- Richter, D.H., and Matson, N.A., Jr., 1971, Quaternary faulting in the eastern Alaska Range, Alaska: Geological Society America Bulletin, v. 82, no. 6, p. 1529–1540.
- Richter, D.H., and Smith, R.L., 1976, Geologic map of the Nabesna A-5 quadrangle, Alaska: U.S. Geological and Geophysical Survey Geologic Quadrangle Map GQ-1292, 1 sheet, scale 1:63,360.
- Richter, D.H., and 5 others, 1989, Geologic map of the Gulkana B-l quadrangle, Alaska: U.S. Geological Survey Geologic Quadrangle Map GQ-1655, scale 1:63,360.
- Richter, D.H., Lanphere, M.A., and Matson, N.A., Jr., 1975, Granitic plutonism and metamorphism eastern Alaska Range, Alaska: Geological Society of America Bulletin, v. 86, no. 6, p. 819–829.
- Richter, D.H., Matson, N.A., Jr., and Schmoll, H.R., 1976, Geologic map of the Nabesna C-4 quadrangle, Alaska: U.S. Geological Survey Geologic Quadrangle Map GQ-1303, 1 sheet, scale 1:63,360.
- Richter, D.H., Schmoll, H.R., and Bove, D.J., 1988, Source of the Sanford volcanic debris flow, south-central Alaska, *in* Galloway, J.P., and Hamilton, T.D., eds., Geologic studies in Alaska by the U.S. Geological Survey during 1987: U.S. Geological Survey Circular 1016, p. 114–116.
- Richter, D.H., Sharp, W.N., Dutro, J.T., Jr., and Hamilton, W.B., 1977, Geologic map of parts of the Mount Hayes A-l and A-2 quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–1031, 1 sheet, scale 1:63,360.
- Richter, D.H., Singer, D.A., and Cox, D.P., 1975, Mineral resources map of the Nabesna quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–655K, scale 1:250,000.
- Richter, D.H., Smith, J.G., Ratte, J.C., and Leeman, W.P., 1984, Shield volcanoes in the Wrangell Mountains, *in* Reed, K.M., and BartschWinkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p.71–75.
- Richter, D.H., Smith, R.L, Yehle, L.A., and Miller, T.P., 1979, Geologic map of the Gulkana A-2 quadrangle, Alaska: U.S. Geological Survey Geologic Quadrangle Map GQ-1520, scale 1:63,360.
- Ricketts, B.D., Evenchick, C.A., Anderson, R.G., and Murphy, D.C., 1992, Bowser basin, northern British Columbia: Constraints on the timing of initial subsidence and Stikinia-North America terrane interactions: Geology, v.20, p. 1119–1122.
- Rickwood, F.K., 1970, The Prudhoe Bay field, *in* Adkison, W.L., and Brosgé, W.P., eds., Proceedings of the geological seminar on the North Slope of Alaska: Los Angeles, Calif., American Association of Petroleum Geologists, Pacific Section, p. L1–L11.
- Riehle, J.R., 1985, A reconnaissance of the major Holocene tephra deposits in the upper Cook Inlet region, Alaska: Journal of Volcanology and Geothermal Research, v. 26, p. 37–74.
- Riehle, J.R., and Brew, D.A., 1984, Explosive latest Pleistocene(?) and Holocene activity of the Mount Edgecumbe volcanic field, Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 111–115.
- Riehle, J.R., and Detterman, R.L., 1993, Quaternary geologic map of the Mount Katmai quadrangle and adjacent parts of the Naknek and Afognak quadrangles, Alaska: U.S. Geological Survey Miscellaneous Geologic Investigations Map 1–2032, scale 1:250,000.
- Riehle, J.R., Brew, D.A., and Lanphere, M.A., 1989, Geologic map of the Mount Edgecumbe volcanic field, Kruzof Island, southeastern, Alaska: U.S. Geological Survey Map 1–1983, scale 1:63,360.
- Riehle, J.R., Champion, D.E., Brew, D.A., and Lanphere, M.A., 1992, Pyroclastic deposits of the Mount Edgecumbe volcanic field, Alaska: Evolution of a stratified magma chamber: Journal of Volcanology and Geothermal Research, v. 53, p. 117–143.
- Riehle, J.R., Detterman, R.L., Yount, M.E., and Miller, J.W., 1987, Preliminary geologic map of the Mount Katmai quadrangle and portions of the Afognak and Naknek quadrangles, Alaska: U.S. Geological Survey Open-File Report 87–593, scale 1:250,000.

- Riehle, J.R., Mann, D.H., Peteet, D.M., Engstrom, D.M., Brew, D.A., and Meyer, C.E., 1992, The Mount Edgecoumbe tephra deposits, a marker horizon in southeastern Alaska near the Pleistocene-Holocene boundary: Quaternary Research, v. 37, p. 183–202.
- Riehle, J.R., Yount, M.E., and Miller, T.P., 1987, Petrography, chemistry, and geologic history of Yantarni Volcano, Aleutian volcanic arc, Alaska: U. S. Geological Survey Bulletin 1761, 27 p.
- Rigby, J.K., and Blodgett, R.B., 1983, Early Middle Devonian sponges from the McGrath quadrangle of west-central Alaska: Journal of Paleontology, v. 57, no. 4, p. 773–786.
- Rigby, J.K., Potter, A.W., and Blodgett, R.B., 1988, Ordovician sphinctozoan sponges of Alaska and Yukon Territory: Journal of Paleontology, v. 62, p. 731–746.
- Ritter, D.F., 1982, Complex river terrace development in the Nenana Valley near Healy, Alaska: Geological Society of America Bulletin, v. 93, p. 346–356.
- Ritter, D.F., and Ten Brink, N.W., 1986, Alluvial fan development and the glacial-glaciofluvial cycle, Nenana Valley, Alaska: Journal of Geology, v. 94, p. 613–625.
- Robbins, S.L., 1987, Gravity interpretation of the coastal plain, *in* Bird, K.J., and Magoon, L.B., eds., Petroleum geology of the northern part of the Arctic National Wildlife Refuge, northeastern Alaska: U.S. Geological Survey Bulletin 1778, p. 219–224.
- Roberts, S.B., 1991, Subsurface cross-section showing coal beds in the Sagavanirktok Formation, vicinity of Prudhoe Bay, east-central North Slope, Alaska: U.S. Geological Survey Coal Investigations Map I C–139–A, 1 sheet.
- Roberts, S.B., Stricker, G.D., and Affolter, R.H., 1991, Stratigraphy and chemical analyses of coal beds in the upper Cretaceous and Tertiary Sagavanirktok Formation, east-central North Slope, Alaska: U.S. Geological Survey Coal Investigations Map C–139–B, 1 sheet.
- Roberts, W.S., 1984, Economic potential for chromium, platinum, and palladium in the Mount Hurst Ultramafics, west central area, Alaska: U.S. Bureau of Mines Open-File Report 22–84, 52 p.
- Robinson, F.M., 1959, Core tests, Simpson area, Alaska, in Part 5, Subsurface geology and engineering data: Exploration of Naval Petroleum Reserve No.4 and adjacent areas, northern Alaska, 1944-53: U.S. Geological Survey Professional Paper 305–L, p. 645–730.
- Robinson, F.M., Rucker, F.P., and Bergquist, H.R., 1956, Two subsurface formations of Early Cretaceous age, *in* Gryc, G., and others, Mesozoic sequence in Colville River region, northern Alaska: American Association of Petroleum Geologists Bulletin, v. 40, p. 223–233.
- Robinson, M.S., 1983, Bedrock geologic map of the Livengood C-4 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–4, scale 1:40,000.
- Robinson, M.S., and Bundtzen, T.K., 1979, Historic gold production in Alaska a minisummary: Fairbanks, Alaska Division of Geological and Geophysical Surveys Mines and Geology Bulletin, v. 28, no. 3, p. 1–10.
- Robinson, M.S. and Decker, J., 1986, Preliminary age dates and analytical data for selected igneous rocks from the Sleetmute, Russian Mission, Taylor Mountains, and Bethel quadrangles, southwestern Alaska: Fairbanks, Alaska Division of Mining and Geological and Geophysical Surveys Public-Data File 86–99, 8 p.
- Robinson, M.S., and Stevens, D.L., compilers, 1984, Geologic map of Seward Peninsula, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report 34, 1 sheet, scale 1:500,000.
- Robinson, M.S., and 6 others, 1989, Geology of the Sadlerochit and Shublik Mountains, Arctic National Wildlife Refuge, northeastern Alaska: Fairbanks, Alaska Department of Natural Resources, Division of Geological and Geophysical Surveys Professional Report 100, 1 sheet, scale 1:63,360.
- Robinson, M.S., Decker, J., and Nye, C.J., 1986, Preliminary whole rock major oxide and trace element geochemistry of selected igneous rocks from the Sleetmute, Russian Mission, and Taylor Mountains quadrangles, southwestern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data File Report 86–98, 8 p.
- Robinson, M.S., Decker, J., Clough, J.G., Reifenstuhl, R.R., Dillon, J.T., Combellick, R.A., and Rawlinson, S.E., 1989, Geology of the Sadlerochit and Shublik Mountains, Arctic National Wildlife Refuge, northeastern Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 100, scale 1:63,360.
- Robinson, M.S., Decker, J., Reifenstuhl, R.R., and Murphy, J.M., 1984, Bedrock geology of the Chuilnuk and Kiokluk Mountains, southwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 330.
- Robinson, M.S., Decker, J., Reifenstuhl, R.R., Murphy, J.M., and Box, S.E., 1984, Geologic map of the Sleetemute B-5 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 84–10, scale 1:63,360.

- Robinson, M.S., Nye, Chris, J., and Decker, John, 1986, Preliminary whole rock major oxide and trace element geochemistry of selected igneous rocks from the Sleetmute, Russian Mission, and Taylor Mountains quadrangles, southwestern Alaska: Fairbanks, Alaska Division of Mining and Geological and Geophysical Surveys Public-Data File 86–98, 9 p.
- Robinson, M.S., Smith, T.E., Bundtzen, T.K., and Albanese, M.D., 1982, Geology and metallogeny of the Livengood area, east-central Alaska [abs.]: Alaska Miners Association Annual Convention Program with Abstracts, p. 8.
- Roden, M.F., 1982, Geochemistry of the earth's mantle, Nunivak Island, Alaska and other areas—evidence from xenolith studies: Cambridge, Mass., Massachusetts Institute of Technology, Ph.D. dissertation, 413 p.
- Roden, M.F., and Murthy, V.R., 1985, Mantle metasomatism: Annual Review of Earth and Planetary Sciences, v. 13, p. 269–296.
- Roden, M.F., Frey, F.A., and Francis, D.M., 1984, An example of consequent mantle metasomatism in peridotite inclusions from Nunivak Island, Alaska: Journal of Petrology, v. 25, p. 546–577.
- Roeder, Dietrich, and Mull, C.G., 1978, Tectonics of Brooks Range ophiolites (Alaska): American Association of Petroleum Geologists Bulletin, v. 62, no. 9, p. 1696–1713.
- Roeder, R.L., and Emslie, E.G., 1970, Olivine-liquid equilibrium: Contributions to Mineralogy and Petrology, v. 29, p. 275–289.
- Roehler, H.W., and Stricker, G.D., 1979, Stratigraphy and sedimentation of the Torok, Kukpowruk, and Corwin formations in the Kokolik-Utukok River region, National Petroleum Reserve in Alaska: U.S. Geological Survey Open-File Report 79–995, 80 p.
- Roeske, S.M., 1986, Field relations and metamorphism of the Raspberry Schist, Kodiak Islands, Alaska, *in* Evans, B.W., and Brown, E.H., eds., Blueschists and eclogites: Geological Society of America Memoir 164, p. 169–184.
- Roeske, S.M., and Mattinson, J.M., 1986, Early Jurassic blueschists and island arc volcanism in southern Alaska; A paired metamorphic belt? [abs.]: Geological Society of America Abstracts with Programs, v. 18, p. 178.
- Roeske, S.M., Mattinson, J.M., and Armstrong, R.L., 1989, Isotopic ages of glaucophane schists on the Kodiak Islands, southern Alaska, and their implications for Mesozoic tectonic history of the Border Ranges fault system: Geological Society of America Bulletin, v. 101, p. 1021–1037.
- Roeske, S.M., Snee, L.W., and Pavlis, T.L., 1991, Strike-slip and accretion events along the southern Alaska plate margin in the Cretaceous and early Tertiary [abs.]: Geological Society of America Abstracts with Programs, v. 23, p. 428–429.
- Rogers, G.C., 1986, Seismic gaps along the Queen Charlotte fault: Earthquake Prediction Research, v. 4, p. 1–11.
- Rogers, J.C., and Morack, J.L., 1978, Geophysical investigations of offshore permafrost, Prudhoe Bay, Alaska, *in* Proceedings, Third International Conference on Permafrost, Edmonton, Alberta, July 10-13, 1978, v. 1: Ottawa, National Research Council of Canada, p. 560–566.
- Rogers, J.C., and Morack, J.L., 1980, Geophysical evidence of shallow nearshore permafrost, Prudhoe Bay, Alaska: Journal of Geophysical Research, v. 85, no. B9, p. 4845–4853.
- Rogers, J.F., 1977, Implications of plate tectonics for offshore Gulf of Alaska petroleum exploration: Houston, Tex., Annual Offshore Technology Conference, 9th, Proceedings, v. 1, p. 11–16.
- Rogers, J.A., 1986, Preliminary bedrock geologic map of the northern central Shublik Mountains and Ignek Valley, northeastern Alaska: Fairbanks, Alaska Divisions of Mining and Geological and Geophysical Surveys Public Data File 86–86a, 15 p., scale 1:25,000.
- Rohn, O., 1900, A reconnaissance of the Chitina River and the Skolai Mountains, Alaska: U.S. Geological Survey 21st Annual Report, part 2, p. 399–440.
- Rohr, D.M., and Blodgett, R.B., 1985, Upper Ordovician Gastropoda from west-central Alaska: Journal of Paleontology, v. 59, p. 667–673.
- Rohr, D.M., and Blodgett, R.B., 1988, First occurrence of Helicotoma Salter (Gastropoda) from the Ordovician of Alaska: Journal of Paleontology, v. 62, p. 304–306.
- Rohr, D.M., Dutro, J.T., Jr., and Blodgett, R.B., Gastropods and brachiopods from the Ordovician Telsitna Formation, northern Kuskokwim Mountains, west-central Alaska, *in* Webby, B.D., and Laurie, J.R., eds., Global perspectives on Ordovician Geology, Proceedings of the Sixth International Symposium on the Ordovician System, Sydney, Australia: Balkema Press, p. 499–512.
- Romick, J.D., 1982, The igneous petrology and geochemistry of northern Akutan Island, Alaska: Fairbanks, Alaska, University of Alaska, Master's thesis, 151 p.

- Romick, J.D., Kay, S.M., and Kay, R.W., 1987, Amphibole fractionation and magma mixing in andesites and dacites from central Aleutians, Alaska: EOS (Transactions of the American Geophysical Union), v. 68, p. 461.
- Romick, J.D., Kay, S.M., and Kay, R.W., 1992, The influence of amphibole fractionation on the evolution of calc-alkaline andesite and dacite tephra from the Central Aleutians, Alaska: Contributions to Mineralogy and Petrology, v. 112, p. 101–118.
- Romick, J.D., Perfit, M.P., Swanson, S.E., and Shuster, R.D., 1990, Magmatism in the eastern Aleutian Arc: Temporal characteristics of igneous activity of Akutan Island: Contributions to Mineralogy and Petrology, v. 104, p. 700–721.
- Roof, S.R., and Brigham-Grette, J., 1992, Paleoclimatic significance of middle Pleistocene glacial deposits in the Kotzebue Sound region, northwest coastal Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. A314.
- Roots, C.F., 1983, Mount Harper Complex, Yukon; Early Paleozoic volcanism at the margip.of the Mackenzie platform, *in* Current Research, part A: Geological Survey of Canada Paper 83–1A, p. 423–427.
- Roots, C.F., 1988, Cambo-Ordovician volcanic rocks in eastern Dawson map–area, Ogilvie Mountains, Yukon, *in* Yukon geology; Annual report of geology section: Department of Indian Affairs and Northern Development, v. 2, p. 81–87.
- Roots, C.F., and Moore, J.M., Jr., 1982, Proterozoic and early Paleozoic volcanism in the Ogilvie Mountains, *in* Yukon exploration and geology 1982: Department of Indian and Northern Affairs, Exploration and Geological Services Division, p. 55–62.
- Rose, A.W., 1965, Geology and mineral deposits of the Rainy Creek area, Mt. Hayes quadrangle, Alaska: Fairbanks, Alaska Division of Mines and Minerals Geologic Report 14, 51 p.
- Rose, A.W., 1965, Geology and mineralization of the Midas mine and Sulphide Gulch areas near Valdez: Fairbanks, Alaska Division of Mines and Minerals Geologic Report 15, 21 p.
- Rose, A.W., 1966, Geology of chromite-bearing rocks near Eklutna, Anchorage quadrangle, Alaska: Fairbanks, Alaska Division of Mines and Minerals Geologic Report 18, 20 p.
- Ross, C.A., and Ross, J.R.P., 1983, Late Paleozoic accreted terranes of western North America, *in* Stevens, C.H., ed., Pre-Jurassic rocks in western North American suspect terranes: Pacific Section, Society of Economic Paleontologists and Mineralogists, p. 7–22.
- Ross, C.A., and Ross, J.R.P., 1985, Carboniferous and Early Permian biogeography: Geology, v. 13, p. 27–30.
- Ross, D.C., 1976, Prehnite in plutonic and metamorphic rocks of the northern Santa Lucia Range, Salinian block, California: U.S. Geological Survey Journal of Research, v. 4, no. 5, p. 561–568.
- Ross, R.J., Adler, F.J., and 26 others, 1982, The Ordovician System in the United States; Correlation chart and explanatory notes: International Union of Geological Sciences Publication 12, 73 p.
- Rossman, D.L., 1959, Geology and ore deposits of northwest Chichagof Island, Alaska: U.S. Geological Survey Bulletin 1058–E, p. 139–216.
- Rossman, D.L., 1963, Geology and petrology of two stocks of layered gabbro in the Fairweather Range, Alaska: U.S. Geological Survey Bulletin 1121–F, p. F1–F50.
- Roy, J.L., 1982, Paleomagnetism of Siluro-Devonian rocks from eastern Maine; Discussion: Canadian Journal of Earth Sciences, v. 19, p. 225–232.
- Roy, J.L., and Morris, W.A., 1983, A review of paleomagnetic results from the Carboniferous of North America; The concept of Carboniferous geomagnetic field markers: Earth and Planetary Science Letters, v. 65, p. 167–181.
- Rubenstone, J.L., 1984, Composition of Paleogene submarine volcanic rocks of the central and western Aleutians and their bearing on the evolution of the Aleutian arc: Ithaca, Cornell University, Ph.D. dissertation, 350 p.
- Rubenstone, J.L., Langmuir, L.H., and Hildreth, E.W., 1985, Isotope and trace element data bearing on the sources and evolution of magmas in the Katmai region, Alaska [abs.]: Geological Society of America Abstracts with Program, v. 17, p. 704.
- Rubin, C.M., and Saleeby, J.B, 1987, The inner boundary zone of the Alexander terrane in southern SE Alaska; Part 1, Cleveland Peninsula to southern Revillagigedo Island [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 826.
- Rubin, C.M., and Saleeby, J.B., 1987, The inner boundary zone of the Alexander terrane, southern SE Alaska; A newly discovered thrust belt [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 445.
- Rubin, C.M., and Saleeby, J.B., 1991, The Gravina sequence: Remnants of a mid-Mesozoic oceanic arc in southern southeast Alaska: Journal of Geophysical Research, v 96, p 14,551–14,568.

- Rubin, C.M., and Saleeby, J.B., 1992, Tectonic history of the eastern edge of the Alexander terrane, southeast Alaska: Tectonics, v. 11, p. 586–602.
- Rubin, C.M., Miller, M.M., and Smith, G.M., 1991, Tectonic development of Cordilleran mid-Paleozoic volcano-plutonic complexes: Evidence for convergent margin tectonism, *in* Harwood, D.S., and Miller, M.M., eds., Paleozoic and early Mesozoic paleogeographic relations of the Sierra Nevada, Klamath Mountains, and related terranes: Geological Society of America Special Paper 225, p. 1–16.
- Rubin, C.M., Smith, G., and Miller, M.M., 1989, The geologic evolution and tectonic setting of mid-Paleozoic arc basement in the North America Cordillera [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. 137.
- Ruckmick, J.C., and Noble, J.A., 1959, Origin of the ultramafic complex at Union Bay, southeastern Alaska: Geological Society of America Bulletin, v. 70, p. 981–1017.
- Runnells, D.D., 1969, The mineralogy and sulfur isotopes of the Ruby Creek copper prospect, Bornite, Alaska: Economic Geology, v. 64, p. 75–90.
- Russell, I.C., 1890, Notes on the surface geology of Alaska: Geological Society of America Bulletin, v. 1, p. 99–162.
- Rutherford, M.J., and Devine, J., 1986, Experimental petrology of recent Mount St. Helens dacites; Amphibole, Fe-Ti oxides, and magma chamber conditions [abs.]: Geological Society of America Abstracts with Programs, v.18, p. 736.
- Ryan, H., and Scholl, D.W., 1989, The evolution of forearc structures along an oblique convergent margin, central Aleutian arc: Tectonics, v. 8, p. 497–516.
- Ryan, J., and Langmuir, C.H., 1987, The systematics of lithium abundances in young volcanic rocks: Geochimica et Cosmochimica Acta, v. 51, p. 1727–1741.
- Ryer, T.A., and Langer, A.W., 1980, Thickness change involved in the peat-to-coal transformation for a bituminous coal of Cretaceous age in central Utah: Journal of Sedimentary Petrology, v. 50, p. 987–992.
- Ryherd, T.J., and Paris, C.E., 1987, Ordovician through Silurian carbonate base-of-slope apron sequence, northern Seward Peninsula, Alaska [abs.], *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Pacific Section, Society of Economic Paleontologists and Mineralogists and Alaska Geological Society, v. 1, p. 347–348.
- Sable, E.G., 1965, Geology of the Romanzof Mountains, Brooks Range, northeastern Alaska: U.S. Geological Survey Open-File Report [65–141], 218 p.
- Sable, E.G., 1977, Geology of the western Romanzof Mountains, Brooks Range, northeastern Alaska: U.S. Geological Survey Professional Paper 897, 84 p., scales 1:63,360.
- Sable, E.G., and Dutro, J.T., Jr., 1961, New Devonian and Mississippian formations in De Long Mountains, northern Alaska: American Association of Petroleum Geologists Bulletin, v. 45, p. 585–593.
- Sable, E.G., and Mangus, M.D., 1984, Geologic map of the west-central Kukpowruk-Nuka Rivers region, northwestern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1669, 2 sheets, scales 1:63,360 and 1:250,000.
- Sable, E.G., and Stricker, G.D.,1987, Coal in the National Petroleum Reserve in Alaska (NPRA)—Framework geology and resources, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Pacific Section, Society of Economic Paleontologist and Mineralogists Special Publication no. 50, p. 195–215.
- Sable, E.G., Chapman, R.M., and Tailleur, I.L., 1984, Geologic map of the western Kukpowruk-Nuka Rivers region, northwestern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1668, 2 sheets, scales 1:63,360 and 1:250,000.
- Sable, E.G., Dutro, J.T., Jr., Morris, R.H., and Tailleur, I.L., 1984, Geologic map of the eastern Kukpowruk-Nuka Rivers region, northwestern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1671, 2 sheets, scales 1:63,360 and 1:250,000.
- Sable, E.G., Mangus, M.D., Morris, R.H., and Dutro, J.T., Jr., 1984, Geologic map of the east-central Kukpowruk-Nuka Rivers region, northwestern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1670, 2 sheets, scales 1:63,360 and 1:250,000.
- Sack, R.O., Carmichael, I.S.E., Rivers, M., and Ghiorso, M.S., 1980, Ferricferrous equilibria in natural silicate liquids at 1 bar: Contributions to Mineralogy and Petrology, v. 75, p. 369–376.
- Sainsbury, C.L., 1967, Quaternary geology of western Seward Peninsula, Alaska, *in* Hopkins, D.M., ed., The Bering land bridge: Palo Alto, Calif. Stanford University Press, p. 121–143.
- Sainsbury, C.L., 1969, Geology and ore deposits of the central York Mountains, western Seward Peninsula, Alaska: U.S. Geological Survey Bulletin 1287, 101 p.

- Sainsbury, C.L., 1972, Geologic map of the Teller quadrangle, western Seward Peninsula, Alaska: U.S. Geological Survey Map 1–685, 4 p., 1 sheet, scale 1:250,000.
- Sainsbury, C.L., 1974, Geologic map of the Bendeleben quadrangle, Seward Peninsula, Alaska: Anchorage, Alaska, The Mapmakers, 31 p., scale 1:250,000.
- Sainsbury, C.L., 1975, Geology, ore deposits, and mineral potential of the Seward Peninsula, Alaska, U.S. Bureau of Mines Open-File Report 73–75, 108 p.
- Sainsbury, C.L., and MacKevett, E.M., Jr., 1965, Quicksilver deposits of southwest Alaska: U.S. Geological Survey Bulletin 1187, 89 p.
- Sainsbury, C.L., and Twenhofel, W.S., 1954, Fault patterns in southeastern Alaska: Geological Society of America Bulletin, v. 65, p. 1300.
- Sainsbury, C.L., Coleman, R.G., and Kachadoorian, R., 1970, Blueschist and related greenschist facies rocks of the Seward Peninsula, Alaska, in Geological Survey research: U.S. Geological Survey Professional Paper 750–C, p. C52–C57.
- Sainsbury, C.L., Coleman, R.G., and Kachadoorian, R., 1970, Blueschist and related greenschist facies rocks of the Seward Peninsula, Alaska: U.S. Geological Survey Professional Paper 700–B, p. B33–B42.
- Sainsbury, C.L., Dutro, J.T., Jr., and Churkin, M., 1971, The Ordovician Silurian boundary in the York Mountains, western Seward Peninsula, Alaska: U.S. Geological Survey Professional Paper 750–C, p. C52–C57.
- Sainsbury, C.L., Hudson, T., Ewing, R., and Marsh, W.R., 1972b, Reconnaissance geologic map of the west half of the Solomon quadrangle, Alaska: U.S. Geological Survey Open-File Report, 10 p., 1 sheet, scale 1:250,000.
- Sainsbury, C.L., Hummel, C.L., and Hudson, T., 1972, Reconnaissance geologic map of the Nome quadrangle, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report, 28 p., 1 sheet, scale 1:250,000.
- Saint Amand, P., 1957, Geological and geophysical synthesis of the tectonics of portions of British Columbia, the Yukon Territory, and Alaska: Geological Society of America Bulletin, v. 68, p. 1343–1370.
- Saint-Andre, B.de, Lancelot, J.R., and Collot, B., 1983, U-Pb geochronology of the Bokan Mountain peralkaline granite, southeastern Alaska: Canadian Journal of Earth Sciences, v. 20, p. 236–245.
- Saleeby, J.B., 1983, Accretionary tectonics of the North American Cordillera: Annual Review of Earth and Planetary Sciences, v. 11, p. 45–73.
- Saleeby, J.B., 1987, The inner boundary zone of the Alexander terrane in southern SE Alaska; Part 2, Southern Revillagigedo Island (Rl) to Cape Fox (CF) [abs.]: Geological Society of America Abstracts with Programs, v. 19, p.828.
- Saleeby, J.B., and Eberlein, G.D., 1981, An ensimatic basement complex and its relation to the Early Paleozoic volcanic arc sequence of southern Prince of Wales Island, southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 13, no. 2, p. 104.
- Sample, J.C., and Fisher, D.M., 1986, Duplex accretion and underplating in an ancient accretionary complex, Kodiak Islands, Alaska: Geology, v. 14, p. 160–163.
- Sample, J.C., and Moore, J.C., 1987, Structural style and kinematics of an underplated slate belt, Kodiak and adjacent islands, Alaska: Geological Society of America Bulletin, v. 99, p. 7–20.
- Samson, S.D., McClelland, W.C., Gehrels, G.E., and Patchett, P.J.,1988, The Alexander terrane, Nd and Sr isotopic evidence for a primitive magmatic history [abs.]: Geological Society of America Abstracts with Programs, v. 20, p. 227.
- Samson, S.D., McClelland, W.C., Gehrels, G.E., Patchett, P.J., and Anderson, R.G., 1987, Nd isotopes and the origin of the accreted Alexander and Stikine terranes in the Canadian Cordillera [abs.]: EOS, (Transactions of the American Geophysical Union), v. 68, p. 1548.
- Samson, S.D., Patchett, P.J., McClelland, W.C., and Gehrels, G.E., 1991, Nd isotopic characterization of metamorphic rocks in the Coast Mountains. Alaskan and Canadian Cordillera: Ancient crust bounded by juvenile terranes: Tectonics, v. 10, p. 770–780.
- Sancetta, C., Heusser, L., Labeyrie, L., Naidu, A.S., and Robinson, S.W., 1985, Wisconsin-Holocene paleo-environment of the Bering Sea; Evidence from diatoms, pollen, oxygen isotopes, and clay minerals: Marine Geology, v. 62, p. 55–68.
- Sanders, R.B., 1981, Coal resources of Alaska, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21-23, 1980 University of Alaska Mineral Industries Research Laboratory Report no. 50, p. 11–31.

- Sanders, R.B.,1976, Geology and coal resources of the Bering River field, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '75 (Conference proceedings, University of Alaska, Fairbanks, October 15-17, 1975): University of Alaska Mineral Industries Research Laboratory Report no. 37, p. 54–58.
- Sarewitz, D., 1983, Seven Devils terrane: Is it really a piece of Wrangellia?: Geology, v. 11, p. 634-637.
- Sater, J.E., Ronhovde, A.G., and van Allen, L.C.,1971, Arctic environment and resources: Washington, D.C., Arctic Institute of North America, 309 p.
- Saunders, A.D., Rogers, G., Marriner, G.R., Terrell, D.J., and Verma, S.P., 1987, Geochemistry of Cenozoic volcanic rocks, Baja Calif., Mexico; Implications for the petrogenesis of post-subduction magmas: Journal of Volcanology and Geothermal Research, v. 32, p. 233–245.
- Savage, J.C., and Lisowski, Michael, 1988, Deformation in the Yakataga seismic gap, southern Alaska, 1980-1986: Journal of Geophysical Research, v. 93, no. B5, p. 4731–4744.
- Savage, J.C., and Plafker George, 1991, Tide-gage measurements of uplift along the south coast of Alaska: Journal of Geophysical Research, v. 96, no. B3, p. 4325–4335.
- Savage, N.M., 1987, Eastern Australia is an unlikely source terrane for the Alexander terrane of southeastern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 830.
- Savage, N.M., 1988, Devonian faunas and major depositional events in the southern Alexander terrane, southeastern Alaska, *in* McMillan, N.J., Embry, A.F., and Glass, D.J., eds., Devonian of the World, Volume 1: Regional Syntheses: Canadian Society of Petroleum Geologists Memoir 14, p. 257–264.
- Savage, N.M., Blodgett, R.B., and Jaeger, H., 1985, Conodonts and associated graptolites from the late Early Devonian of east-central Alaska and western Yukon Territory: Canadian Journal of Earth Sciences, v. 22, no. 12, p. 1880–1883.
- Savage, N.M., Potter, A.W., and Gilbert, W.G., 1983, Silurian and Silurian to Early Devonian conodonts from west-central Alaska: Journal of Paleontology, v. 57, p. 873–875.
- Sawyer, J.P.B., and Dickinson, R.A., 1976, Mount Nansen, *in* Brown, S.A., ed., Porphyry deposits of the Canadian Cordillera: Canadian Institute of Mining and Metallurgy Special Volume 5, p. 336–343.
- Schaff, R.G., and Gilbert, W.G., 1987, Southern Alaska region correlation chart, in Correlation of stratigraphic units of North America (COSUNA) project: Tulsa, Olkahoma, American Association of Petroleum Geologists.
- Scheidegger, K.F., and Kulm, L.D., 1975, Late Cenozoic volcanism in the Aleutian arc; Information from ash layers in the northeastern Gulf of Alaska: Geological Society of America Bulletin, v. 86, p. 1407–1412.
- Scheidegger, K.F., Corliss, J.B., Jazek, P.A., and Ninkovich, D.,1980, Compositions of deep-sea ash layers derived from North Pacific volcanic arcs; variations in time and space: Journal of Volcanology and Geothermal Research, v. 7, p 107–137.
- Schell, M.M.and Ruff, L.J., 1989, Rupture of a seismic gap in southeastern Alaska: The 1972 Sitka earthquake (M_S 7.6): Physics of the Earth and Planetary Interiors, v. 54, p. 241–257.
- Schmidt, J.M.,1986, Stratigraphic setting and mineralogy of the Arctic volcanogenic massive sulfide prospect, Ambler District, Alaska: Economic Geology, v. 81, no. 7, p. 1619–1643.
- Schmidt, J.M., 1983, Geology and geochemistry of the Arctic prospect, Ambler district, Alaska: Palo Alto, Calif., Stanford University, Ph.D. dissertation, 253 p.
- Schmidt, J.M., 1984, Basalt-rhyolite volcanism of the Late Devonian Ambler Sequence, northwestern Alaska; major element compositions and tectonic setting [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 331.
- Schmidt, J.M., 1987, Paleozoic extension of the western Brooks Range (WRB) continental margin—Evidence from mineral deposits, igneous rocks, and sedimentary facies [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 447.
- Schmoll, H.R., 1984, Late Pleistocene morainal and glaciolacustrine geology in the upper Copper River Mentasta Pass area, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 332.
- Schmoll, H.R., and Yehle, L.A., 1986, Pleistocene glaciation of the upper Cook Inlet basin, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 193–218.
- Schmoll, H.R., and Yehle, L.A., 1983, Glaciation in the upper Cook Inlet basin; A preliminary reexamination based on geologic mapping in progress [abs.], *in* Thorson, R.M., and Hamilton, T.D., eds., Glaciation in Alaska; Extended abstracts from a workshop: Fairbanks, University of Alaska Museum Occasional Paper 2, p. 75–81.

- Schmoll, H.R., Chleborad, A.F., Yehle, L.A., Gardner, C.A., and Patsch, A.D., 1981, Reconnaissance engineering geology of the Beluga coal resource area, south-central Alaska, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '80 (Conference proceedings, University of Alaska, Fairbanks, October 21 23, 1980): University of Alaska Mineral Industries Research Laboratory Report no. 50, p. 92–110.
- Schmoll, H.R., Szabo, B.J., Rubin, M., and Dobrovolny, E.,1972, Radiometric dating of marine shells from the Bootlegger Cove Clay, Anchorage area, Alaska: Geological Society of America Bulletin, v. 83, p. 1107–1113.
- Schmoll, H.R., Yehle, L.A., Gardner, C.A., and Odum, J.K., 1984, Guide to surfcial geology and glacial stratigraphy in the upper Cook Inlet basin: Anchorage, Alaska Geological Society Guidebook, 89 p.
- Schoennagel, F.H., 1977, Mississippian unconformities in northern Alaska related to Antler tectonic pulses: American Association of Petroleum Geologists Bulletin, v. 61, no. 3, p. 435–442.
- Scholl, D.W., Buffington, E.C., and Marlow, M.S.,1975, Plate tectonics and the structural evolution of the Aleutian-Bering Sea region, *in* Forbes, R., ed., Contributions to the geology of the Bering Sea Basin and adjacent regions: Geological Society of America Special Paper 131, p. 1–31.
- Scholl, D.W., Greene, H.G., and Marlow, M.S., 1970, Eocene age of the Adak Paleozoic(?) rocks, Aleutian Islands, Alaska: Geological Society of America Bulletin, v. 81, p. 3583–3592.
- Scholl, D.W., Marlow, M.S., and Buffington, E.C., 1973, Pliocene and Pleistocene eruptive rocks of the western Aleutian ridge—a bleeding strike-slip plate boundary (?) [abs.]: Geological Society of America Abstracts with Programs, v. 5, no. 1, p. 101.
- Scholl, D.W., Marlow, M.S., MacLeod, N.S., and Buffington, E.C., 1976, Episodic Aleutian Ridge igneous activity; Implications of Miocene and younger submarine volcanism west of Buldir Island: Geological Society of America Bulletin, v. 87, p. 547–554.
- Scholl, D.W., Vallier, T.L., and Stevenson, A.J., 1982, Sedimentation and deformation in the Amlia fracture zone sector of the Aleutian trench: Marine Geology, v. 48, p. 105–134.
- Scholl, D.W., Vallier, T.L., and Stevenson, A.J., 1983, Arc, forearc, and trench sedimentation and tectonics; Amlia corridor of the Aleutian Ridge, *in* Watkins, J., and Drake, C.L., eds., Studies in continental margin geology: American Association of Petroleum Geologists Memoir 34, p. 413–439.
- Scholl, D.W., Vallier, T.L., and Stevenson, A.J., 1983, Geologic evolution of the Aleutian Ridge; Implications for petroleum resources: Journal of the Alaska Geological Society, v. 3, p. 33–46.
- Scholl, D.W., Vallier, T.L., and Stevenson, A.J., 1986, Terrane accretion, production, and continental growth; A perspective based on the origin and tectonic fate of the Aleutian-Bering Sea region: Geology, v. 14, p. 43–47.
- Scholl, D.W., Vallier, T.L., and Stevenson, A.J., 1987, Geologic evolution and petroleum geology of the Aleutian Ridge, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Houston, Tex., Circum-Pacific Council for Energy and Mineral Resources Series, v. 6, p. 123–155.
- Schopf, J.M., 1956, A definition of coal: Economic Geology, v. 51, p. 521–527.
- Schrader, F.C., 1900, Preliminary report on a reconnaissance along the Chandalar and Koyukuk Rivers, Alaska, in 1899: U.S. Geological Survey Twenty-first Annual Report, Part 2, p. 441–486.
- Schrader, F.C., I902, Geological section of the Rocky Mountnins in northern Alaska: Geological Society of America Bulletin, v. 13, p. 233–252.
- Schrader, F.C., 1904, A reconnaissance in northern Alaska, across the Rocky Mountains, along Koyukuk, John, Anaktuvuk, and Colville rivers, and the Arctic Coast to Cape Lisburne, in 1901: U.S. Geological Survey Professional Paper 20, 139 p., map.
- Schuchert, C., 1923, Sites and nature of the North American geosynclines: Geological Society of America Bulletin, v. 34, p. 151–230.
- Schwab, W.C., and Bruns, T.R., 1979, Preliminary residual magnetic map of the northern Gulf of Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–1054, 1 sheet, scale 1:500,000.
- Schwarz, E.J., Muller, J.E., and Clark, K.R., 1980, Paleomagnetism of the Karmutsen basalts from southeast Vancouver Island: Canadian Journal of Earth Sciences, v. 17, p. 389–399.
- Schweger, C.E., and Matthews, J.V., Jr., 1985, Early and Middle Wisconsinan environments of eastern Beringia; Stratigraphic and paleoecological implications of the Old Crow tephra: Geographie physique et Quaternaire, v. 39, p. 275–290.

- Scott, D.B., Mudie, P.J., Baki, V., MaeKinnon, K.D., and Cole, F.E., 1989, Biostratigraphy and late Cenozoic paleooceanography of the Arctic Ocean—Foraminiferal, lithostratigraphic, and isotopic evidence: Geological Society of America Bulletin, v. 101, p. 260–277.
- Sedivy, R.A., and 5 others, 1987, Investigation of source rock–crude oil relationships in the northern Alaska hydrocarbon habitat, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Pacific Section, Society of Economic Paleontologists and Mineralogists, p. 169–179.
- Seemann, B., 1853, Narrative of the voyage of the H.M.S. *Herald* during the years 1845–51, under Captain Henry Kellett, R.N.: London, in 2 v.
- Seifert, W.K., Moldowan, J.M., and Jones, J.W., 1980, Application of biological marker chemistry to petroleum exploration, *in* Proceedings 10th World Petroleum Congress: London, Heyden and Son, Ltd., p. 425–440.
- Seitz, J.F., 1959, Geology of Geikie Inlet area, Glacier Bay, Alaska: U.S. Geological Survey Bulletin 1058-C, p. 61-120.
- Seliverstov, N.I., Avdieko, G.P., Ivanenko, A.N., Shnra, V.A., and Khubunaya, S.A., 1990, A new submarine volcano in the west of the Aleutian Island arc: Volcanology and Seismology, v. 8, p. 473–495.
- Sellmann, P.V., and Hopkins, D.M.,1984, Subsea permafrost distribution on the Alaskan shelf, *in* Permafrost, Final Proceedings, Fourth International Conference, Fairbanks, Alaska, July 17-22, 1983: Washington, D.C., National Academy Press, p. 75–82.
- Seraphim, R.H., 1975, Denali—A nonmetamorphosed stratiform sulfide deposit: Economic Geology, v. 70, p. 949–959.
- Shackleton, N.J., 1987, Oxygen isotopes, ice volume, and sea level: Quaternary Science Reviews, v. 6, p. 183-190.
- Shackleton, N.J., and 16 others, 1984, Oxygen isotope calibration of the onset of ice-rafting and history of glaciation in the North Atlantic region: Nature, v. 307, p. 620–623.
- Shand, S.J., 1951, Eruptive rocks: New York, J. Wiley and Sons, Inc., 488 p.
- Shanmugam, G., and Higgins, J.B., 1988, Porosity enhancement from chert dissolution beneath Neocomian unconformity: Ivishak Formation, North Slope, Alaska: American Association of Petroleum Geologists Bulletin, v. 72, p. 523–535.
- Shelton, D.H., 1986, The geochemistry and petrogenesis of gabbroic rocks from Attu Island, Aleutian Islands, Alaska: Ithaca, New York, Cornell University, Master's thesis, 177 p.
- Shervais, J.W., 1982, Ti-V plots and the petrogenesis of modern and ophiolitic lavas: Earth and Planetary Science Letters, v. 59, p. 101–118.
- Sherwood, K.W., 1973, Geologic structure along the Hines Creek Fault west of the Wood River, north central Alaska Range: Madison, Wisconsin, University of Wisconsin, Master's thesis, 131 p., 1 sheet, scale 1:63,360.
- Sherwood, K.W.,1979, Stratigraphy, metamorphic geology, and structural geology of the central Alaska Range, Alaska: Madison, University of Wisconsin, Ph.D. dissertation, 692 p.
- Sherwood, K.W., and Craddock, C.,1979, General geology of the central Alaska Range between the Nenana River and Mount Deborah: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 116, 22 p., 2 plates, scale 1:63,360.
- Sherwood, K.W., Brewer, W.M., Craddock, C., Umhoefer, P.J., and Hickman, R.G., 1984, The Denali fault system and terranes of the central Alaska Range region, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 332.
- Shew, Nora, and Wilson, F.H., 1981, Map and table showing radiometric ages of rocks in southwestern Alaska: U.S. Geological Survey Open-File Report 81–886, 26 p., 1 sheet, scale 1:1,000,000.
- Shmidt, O.A., 1978, The tectonics of the Komandorsky Islands and the structure of the Aleutian Ridge: Geological Institute, Academy of Science U.S.S.R., v. 320, Moscow, Nauka, 100 p. (in Russian).
- Shor, G.G., Jr., 1964, Structure of the Bering Sea and the Aleutian Ridge: Marine Geology, v. 1, p. 213-219.
- Short, S.K., Waythomas, C.F., and Elias, S.A., 1990, Late Quaternary environments of the Holitna lowland, southwestern Alaska [abs.] *in* 19th Arctic Workshop, March 8-10, Programs and Abstracts: Boulder, Colo., Institute of Arctic and Alpine Research, p. 72–73.
- Shumway, George, Moore, D.G., and Dowling, G.B., 1964, Fairway rock in Bering Strait, *in* Miller, R.L., ed., Papers in Marine Geology, Shepard Commemorative Volume: New York, MacMillan Company, p. 401–407.
- Sichermann, H.A., Russell, R.H., and Fikkan, P.R., 1976, The geology and mineralization of the Ambler district, Alaska: Spokane, Washington, Bear Creek Mining Company, 22 p.

- Silberling, N.J.,1985, Paleogeographic significance of the Upper Triassic bivalve *Monotis* in Circum-Pacific accreted terranes, *in* Howell, D.G., ed., Tectonostratigraphic terranes of the circum-Pacific region: American Association of Petroleum Geologist Circum-Pacific Earth Science Series, no. 1, p. 63–70.
- Silberling, N.J., and Jones, D.L., eds., 1984, Lithotectonic terrane maps of the North American Cordillera: U.S. Geological Survey Open-File Report 84–523, scale 1:2,500.000.
- Silberling, N.J., Wardlaw, B.R., and Berg, H.C., 1982, New paleontologic age determinations from the Taku terrane, Ketchikan area, southeastern Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 117–119.
- Silberling, N.J., Jones, D.L., Monger, J.W.H., and Coney, P.J., 1992, Lithotectonic terrane map of the North American Cordillera: U.S. Geological Survey Miscellaneous Investigations Map 1–2176, scale 1:5,000,000.
- Silberling, N.J., Richter, D.H., Jones, D.L., and Coney, P.J., 1981, Geologic map of the bedrock part of the Healy A-l quadrangle south of the Talkeetna Broxson Gulch fault system, Clearwater Mountains, Alaska: U.S. Geological Survey Open-File Report 81–1288, 1 sheet, scale 1:63,360.
- Silberling, N.J., Jones, D.L., Coney, P.J., Berg, H.C., and Plafker, George, 1994, Lithotectonic terrane map of Alaska, , *in* Plafker, G. and Berg, H.C., eds., The geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America, v. G1, Plate 3, 1 sheet with text, scale 1:2,500,000.
- Silberman, M.L., and Grantz, A., 1984, Paleogene volcanic rocks of the Matanuska Valley area and the displacement history of the Castle Mountain fault, *in* Coonrad, W.L., and Elliott, R.L., eds., The U.S. Geological Survey in Alaska: accomplishments during 1981: U.S. Geological Survey Circular 868, p. 82–86.
- Silberman, M.L., and Hopkins, D.M., 1976, Potassium argon ages of basement rocks from St. George Island, Alaska: U.S. Geological Survey Open-File Report 76–733, 11 p.
- Silberman, M.L., Brookins, D.G., Nelson, S.W., and Grybeck, D., 1979, Rubidium-strontium and potassium-argon dating of emplacement and metamorphism of the Arrigetch Peaks and Mount Igikpak plutons, Survey Pass quadrangle, Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The U.S. Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B18–B19.
- Silberman, M.L., Csejtey, Béla, Jr., Smith, J.G., Lanphere, M.A., and Wilson, F.H., 1978, New potassium-argon data on the age of mineralization and metamorphism in the Willow Creek mining district, southern Talkeetna Mountains, Alaska: U.S. Geological Survey Circular 772–B, p. B65–B69.
- Silberman, M.L., MacKevett, E.M., Jr., Connor, C.L., and Matthews, Alan, 1980, Metallogenic and tectonic significance of oxygen isotope data and whole-rock potassium-argon ages of the Nikolai greenstone, McCarthy quadrangle, Alaska: U.S. Geological Survey Open-File Report 80–2019, 29 p.
- Silberman, M.L., MacKevett, E.M., Jr., Connor, C.L., and Matthews, Alan, 1981, Metallogenic and tectonic significance of whole rock potassium-argon ages of the Nikolai greenstone, McCarthy quadrangle, Alaska, *in* Silberman, M.L., Field, C.W., and Berry, A.L., eds., Proceedings of the symposium on mineral deposits of the Pacific Northwest: U.S. Geological Survey Open-File Report 81–355, p. 53–73.
- Silberman, M.L., MacKevett, E.M., Jr., Connor, C.L., Klock, P.R., and Kalechitz, G., 1981, K-Ar ages of the Nikokai Greenstone from the McCarthy quadrangle, Alaska—The "docking" of Wrangellia, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B61–B63.
- Silberman, M.L., Matthews, Alan, Potter, R.W., and Nissenbaum, Arie, 1977, Stable isotope geochemistry, sulphide mineralogy, and potassium-argon ages of the Kennecott massive sulphide deposits, Alaska, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B56–B58.
- Silberman, M.L., Mitchell, P.A., O'Neil, J.R., 1981, Isotopic data bearing on the origin and age of the epithermal lode gold deposits in the Hope-Sunrise mining district, northern Kenai Peninsula, Alaska: U.S. Geological Survey Circular 823–B, p. B81–B84.
- Silberman, M.L., Moll, E.J., Chapman, R.M., Patton, W.W., Jr., and Connor, C.L., 1979, Potassium-argon age of granitic and volcanic rocks from the Ruby, Medfra, and adjacent quadrangles, west-central Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B63–B66.
- Silberman, M.L., Morton, J.L., Cox, D.C., and Richter, D.H., 1977, Potassium-argon ages of disseminated copper and molybdenum mineralization in the Klein Creek and Nabesna plutons, eastern Alaska Range, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B54–B56.

- Silberman, M.L., O'Leary, R.M., Csejtey, Béla, Jr., Smith, J.G., and Connor, C.L., 1978, Geochemical anomalies and isotopic ages in the Willow Creek mining district, southwestern Talkeetna Mountains, Alaska: U.S. Geological Survey Open-File Report 78–233, 32 p.
- Silberman, M.L., Potter, R.W., II, and Nissenbaum, Arie, 1976, Stable isotope, sulphide mineralogy, fluid inclusion, and K-Ar age study of the massive sulphide deposits at Kennecott, *in* Cobb, E.H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U.S. Geological Survey Circular 733, p. 51–52.
- Simkin, T., and Smith, J.V., 1970, Minor-element distribution in olivine: Journal of Geology, v. 78, p. 304-325.
- Simkin, T., and 5 others, 1981, Volcanoes of the world: Smithsonian Institution, Stroudsburg, Pennsylvania, Hutchinson Ross Publishing Co., 232 p.
- Simkin, T., Siebert, L., and McClelland, L., 1984, Volcanoes of the World: 1984 Supplement: Smithsonian Institution, Washington, D.C., 33 p.
- Simons, F.S., and Mathewson, D.E., 1953, Geology of Great Sitkin Island, Alaska: U.S. Geological Survey Bulletin 1028–B, p. 21–42.
- Simpson, G.L., Vallier, T.L., Pearl, J.E., and Lee-Wong, F., 1979, Potassium-argon ages and geochemistry of basalt dredged near Saint George Island, southern Bering Sea, *in* Johnson, K.M., and Williams, J.R., eds., The U.S. Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B134–B136.
- Simpson, R.W., Jachens, R.C., Blakely, R.J., and Saltus, R.W., 1986, A new isostaic residual gravity map of the conterminous United States with a discussion of the significance of the isostatic residual anomalies: Journal of Geophysical Research, v. 91, no. B8, p. 8348–8372.
- Simpson, R.W., Jachens, R.C., Saltus, R.W., and Blakely, R.J., 1986, Isostatic residual gravity, topographic and first vertical derivative gravity maps of the conterminous United States: U.S. Geological Survey Geophysical Investigations Map GP–975, 2 sheets, scale 1:7,500,000.
- Sinclair, P.D., Templeman-Kluit, D.J., and Mendaris, L.G., Jr., 1978, Lherzolite nodules from a Pleistocene cinder cone in central Yukon [Canada]: Canadian Journal of Earth Science, v. 15, p. 220–226.
- Sinclair, W.D., 1978, Porphyry occurrences of southern Yukon, in Current Research, Part A: Geological Survey of Canada Paper 78–IA, p. 283–286.
- Singer, B.S., and Myers, J.D., 1988, Major and trace element characteristics of lavas from Seguam Island, central Aleutian Islands, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 21, p. A56.
- Singer, B.S., and Myers, J.D., 1990, Intra-arc extension and magmatic evolution in the central Aleutian arc, Alaska: Geology, v. 18, p. 1050–1053.
- Singer, B.S., Myers, J.D., and Frost, C.D., 1992, Mid-Pleistocene basalt from Seguam Volcanic Center, Central Aleutian Arc, Alaska: Local lithospheric structures and source vanability in the Aleutian Arc: Journal of Geophysical Research, v. 97, p. 4561–4578.
- Singer, B.S., Myers, J.D., and Frost, C., 1992, Mid-Pleistocene lavas from the Seguam volcanic center, central Aleutian arc; Closed-system fractional crystallization of a basalt to dacite eruptive suite: Contributions to Mineralogy and Petrology, v. 10, p. 87–112.
- Singer, B.S., Myers, J.D., Linneman, S.R., and Angevine, C., 1989, The thermal history of ascending magma diapirs and the thermal and physical evolution of magmatic conduits: Journal of Volcanology and Geothermal Research, v. 37, p. 273–289.
- Singer, B.S., O'Neil, J.R., and Brophy, J.G., 1992, Oxygen isotope constraints on the petrogenesis of Aleutian Arc magmas: Geology, v. 20, p. 367–370.
- Singer, D.A., Curtin, G.C., and Foster, H.L., 1976, Mineral resources map of the Tanacross quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–767–E, scale 1:250,000.
- Siok, J.P.,1989, Stratigraphy and petrology of the Okpikruak Formation at Cobblestone Creek, north-central Brooks Range, *in* Mull, C.G., and Adams, K.E., eds., Dalton Highway, Yukon River to Prudhoe Bay, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Guidebook 7, v. 2, p.285–292.
- Siok, J.P., 1985, Geologic history of the Siksikpuk Formation on the Endicott Mountains and Picnic Creek allochthons, north-central Brooks Range, Alaska: Fairbanks, University of Alaska, Master's thesis, 253 p.
- Siok, J.P., and Mull, C.G., 1987, Glauconitic phosphatic sandstone and oncolite deposition at the base of the Etivluk Group (Carboniferous) Picnic Creek allochthon, north-central Brooks Range, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif. Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 367–370.

- Sirkin, L., and Tuthill, S.J., 1987, Late Pleistocene and Holocene deglaciation and environments of the southern Chugach Mountains, Alaska: Geological Society of America Bulletin, v. 99, p. 376–384.
- Sisson, V.B., and Hollister, L.S., 1988, Low-pressure facies series metamorphism in an accretionary sedimentary prism, southern Alaska: Geology, v. 16, p. 358–361.
- Sisson, V.B., and Onstott, T.C., 1986, Dating blueschist metamorphism: A combined ⁴⁹Ar/³⁹Ar and electron microprobe approach: Geochimica et Cosmochimica Acta, v. 50, p. 2111 –2117.
- Sisson, V.B., Hollister, C.S., and Onstatt, T.C., 1989, Petrologic and age constraints on the origin of a low-pressure/high-temperature metamorphic complex, southern Alaska: Journal of Geophysical Research, v. 94, no. B4, p. 4392–4410.
- Sloan, E.G., Shearer, G.B., Eason, J.E., and Almquist, C.L., 1979, Reconnaissance survey for coal near Farewell, Alaska: U.S. Geological Survey OpenFile Report 79–410, 18 p., 4 plates.
- Sloss, L.L., 1963, Sequences in the cratonic interior of North America: Geological Society of America Bulletin, v. 74, p. 93–114.
- Smiley, C.J., 1969, Floral zones and correlations of Cretaceous Kukpowruk and Corwin formations, northwestern Alaska: American Association of Petroleum Geologists Bulletin, v. 53, p. 2079–2093.
- Smirnoff, Leonid, and Connelly, William, 1980, Axes of elongation of petrified stumps in growth position as possible indicators of paleosouth, Alaska Peninsula: Geology, v. 8, p. 547–548.
- Smirnov, Y.B., and Sugrobov, V.M., 1979, Heat flow in the northwest Pacific Ocean: Priroda, no. 8, p. 94-101.
- Smith, D.G., 1987, Late Paleozoic to Cenozoic reconstructions of the Arctic, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 785–795.
- Smith, D.T., Stone, D.B., and Dillon, J.T., 1987, Bouguer gravity data and a north south gravity and magnetic profile from the Wiseman area, Brooks Range, Alaska, *in* Tailleur, I.L., and Werner, Paul, eds., Alaskan North Slope Geology: Society of Economic Paleontologists and Mineralogists, Pacific Section, Bakersfield, Calif., v. 2, p. 725–734.
- Smith, G.M., and Puchner, C.C., 1985, Geologic map and cross sections of the Ruby geanticline between Ruby and Poorman, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 720.
- Smith, G.M., and Puchner, C.C.,1985, Geology of the Ruby geanticline between Ruby and Poorman, Alaska, and the tectonic emplacement of the Rampart Group [abs.]: EOS (Transactions of the American Geophysical Union), v. 66, no. 46, p. 1102.
- Smith, G.M., and Rubin, C.M., 1987, Devonian-Mississippian arc from the northern Sierras to the Seward Peninsula: record of a protracted and diachronous Antler-age orogeny [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 849.
- Smith, J.G., 1973, A Tertiary lamprophyre dike province in southeastern Alaska: Canadian Journal of Earth Sciences, v. 10, no. 3, p. 408–420.
- Smith, J.G., 1977, Geology of the Ketchikan D-1 and Bradfield Canal A-1 quadrangles: U.S. Geological Survey Bulletin 1425, 49 p., 1 plate, scale 1:63,360.
- Smith, J.G., and Diggles, M.F., 1981, Potassium-argon determinations in the Ketchikan and Prince Rupert quadrangles, southeastern Alaska: U.S. Geological Survey Open-File Report 78–73–N, 16 p., 1 plate, scale 1:250,000.
- Smith, J.G., and MacKevett, E.M., Jr., 1970, The Skokai Group in the McCarthy B-4, C-4, and C-5 quadrangles, Wrangell Mountains, Alaska. U.S. Geological Survey Bulletin 1274–Q, p. Q1–Q26.
- Smith, J.G., Elliott, R.L., Berg, H.C., and Wiggins, B.D., 1977, Map showing general geology and locations of chemically and radiometrically analyzed samples in parts of the Ketchikan, Bradfield Canal, and Prince Rupert quadrangles, southeastern Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–825, 2 sheets, scale 1:250,000.
- Smith, P.S., 1910, Geology and mineral resources of the Solomon and Casadepaga quadrangles, Seward Peninsula, Alaska: U.S. Geological Survey Bulletin 433, 234 p.
- Smith, P.S., 1913, Lode mining near Fairbanks: U.S. Geological Survey Bulletin 542–F, p. 137–202.
- Smith, P.S., 1939, Areal geology of Alaska: U.S. Geological Survey Professional Paper 192, 100 p.
- Smith, P.S., 1941. Possible future oil provinces in Alaska *in* Levorsen, A.I., ed., Possible future oil provinces of the United States and Canada: American Association of Petroleum Geologists Bulletin, v. 25, p. 1440–1446.
- Smith, P.S., and Mertie, J.B., Jr., 1930, Geology and mineral resources of northwestern Alaska: U.S. Geological Survey Bulletin 815, 351 p.

- Smith, R.L., and Shaw, H.R., 1975, Igneous-related geothermal systems, *in* White, D.E., and Williams, D.L., eds., Assessment of geothermal resources of the United States; 1975: U.S. Geological Survey Circular 726, p. 58–83.
- Smith, R.L., and Shaw, H.R., 1979, Igneous-related geothermal systems, *in* Muffler, L.J.P., ed., Assessment of geothermal resources of the United States; 1978: U.S. Geological Survey Circular 790, p. 12–17.
- Smith, T.E., 1976, Geologic map of the western Clearwater Mountains: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF 29, 1 sheet, scale 1:63,360.
- Smith, T.E. 1981, Geology of the Clearwater Mountains, south-central Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 60, 72 p., 4 plates.
- Smith, T.E., 1983, Bedrock geologic map of the Livengood C-3 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 83–5, scale 1:40,000.
- Smith, T.E., 1984, McClaren metamorphic belt of south-central Alaska revisited; the case for suprabatholithic recrystallization [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 333.
- Smith, T.E., and Lanphere, M.A., 1971, Age of the sedimentation, plutonism and regional metamorphism in the Clearwater Mountains region, central Alaska: Isochron/West, no. 2, p. 17–20.
- Smith, T.E., and Turner, D.L., 1973, Geochronology of the Maclaren metamorphic belt, south-central Alaska-a progress report: Isochron/West, no. 7, p. 21–25.
- Smith, T.E., Forbes, R.B., and Turner, D.L.,1974, A solution to the Denali fault offset problem: Fairbanks, Alaska Division of Geological and Geophysical Surveys Annual Report, 1973, p. 25–27.
- Smith, T.E., Robinson, M.S., Bundtzen, T.K., and Metz, P.A., 1981, Fairbanks mining district in 1981: New look at an old mineral province [abs.]: Alaska Miners Association Convention Program with Abstracts, p. 12.
- Smith, T.E., Webster, G.D., Heatwole, D.A., Proffett, J.M., Kelsey, G., and Glavinovich, P.S., 1978, Evidence for mid-Paleozoic depositional age of volcanogenic base-metal massive sulfide occurrences and enclosing strata, Ambler district, northwest Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 10, p. 148.
- Smith, T. N., Clough, J. G., Meyer, J. F., and Blodgett, R. B., 1985, Petroleum potential and stratigraphy of Holitna basin, Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v. 69, no. 2, p. 308.
- Smith, T.N., Blodgett, R.B., and Clough, J.G., 1984, Preliminary analysis of the petroleum potential and stratigraphy of the Holitna basin, southwest Alaska [abs.]: Geological Society of America, Abstracts with Programs, v. 16, no. 5, p. 334.
- Snyder, G.L., 1959, Geology of Little Sitkin Island, Alaska: U.S. Geological Survey Bulletin 1028–H, p. 169–209.
- Snyder, W.S., Dickinson, W.R., and Silberman, M.L., 1976, Tectonic implications of space-time patterns of Cenozoic magmatism in the western United States: Earth and Planetary Science Letters, v. 32, p. 91–106.
- Solie, D.N., 1988, The Middle Fork Plutonic complex; a plutonic association of coeval peralkaline and metaluminous magmas in the north-central Alaska Range: Blacksburg, Va., Virginia Polytechnic Institute and State University, Ph.D. dissertation, 278 p.
- Solie, D.N., and Dickey, D.B., 1982, Coal occurrences and analyses, Farewell White Mountain area, southwest Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report 160, 17 p., 1 plate.
- Sonnevil, R.A., 1981, The Chilkat-Prince of Wales plutonic province, southeastern Alaska: U.S. Geological Survey Circular 823–B, p. B112–B115.
- Souther, J.G., 1970, Volcanism and its relationship to recent crustal movements in the Canadian Cordillera: Canadian Journal of Earth Sciences, v.7, pt. 2 of no. 2, p. 553–568.
- Souther, J.G., 1971, Geology and mineral deposits of the Tulsequah map area, British Columbia: Geological Survey of Canada Memoir 362, 84 p.
- Souther, J.G., and Armstrong, J.E,1966, North-central belt of the Cordillera of British Columbia: Canadian Institute of Mining and Metallurgy Special Volume 8, p. 171–184.
- Souther, J.G., and Stanciu, C., 1975, Operation Saint Elias, Yukon Territory: Canadian Geological Survey Report of Activities No. 75–1, Part A, p. 63–70.
- Souther, J.G., Armstrong, R.L., and Harakal, J., 1984, Chronology of the peralkaline, late Cenozoic Mount Edziza volcanic complex, northern British Columbia, Canada: Geological Society of America Bulletin, v. 95, p. 337–349.
- Southworth, D.D., 1984, Red Mountain; A southeastern Alaska-type ultramafic complex in southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v.16, p. 334.

- Southworth, D.D., and Foley, J.Y., 1986, Lode platinum-group metals potential of the Goodnews Bay ultramafic complex, Alaska: U.S. Bureau of Mines Open-File Report 51–86, 82 p.
- Specht, R.N., Brown, A.E., Selman, C.H., and Carlisle, J.H.,1986, Geophysical case history, Prudhoe Bay field: Geophysics, v. 51, p. 1039–1049.
- Speer, J.A., 1981, Petrology of cordierite and almandine-bearing granitoid plutons of the southern Appalachian Piedmont, U.S.A.: Canadian Mineralogist, v. 19, part 1, p. 35 46.
- Spence, W., 1977, The Aleutian arc; Tectonic blocks, episodic subduction, strain diffusion and magma generation: Journal of Geophysical Research, v. 82, no.2, p. 213–230.
- Spencer, A.C., 1905, The Treadwell ore deposits, Douglas Island: U.S. Geological Survey Bulletin 259, p. 69–87.
- Spencer, A.C., 1906, The Juneau gold belt, Alaska: U.S. Geological Survey Bulletin 287, p. 1–137.
- Srivastava, S.P.,1978, Evolution of the Labrador Sea and its bearing on the early evolution of the North Atlantic: Geophysical Journal of the Royal Astronomical Society, v. 52, p. 313–357.
- Stach, E., 1968, Basic principles of coal petrology: Macerals, microlithotypes, and some effects of coalification, *in* Murchison, D., and Westoll, T.S., eds., Coal and coal-bearing strata: New York, Elsevier, p. 3–17.
- Stach, E., Mackowsky, M.T., Teichmueller, M., Taylor, G.H., Chandra, D., and Teichmueller, R., 1982, Stach's textbook of coal petrology (3rd ed.): Berlin, Gebrueder Borntraeger, 535 p.
- Stamatakos, J.A., Kodama, K.P., Vittorio, L.F., and Pavlis, T.L., 1989, Paleomagnetism of Cretaceous and Paleocene sedimentary rocks across the Castle Mountain fault, south central Alaska: American Geophysical Union Geophysical Monograph Series, v. 50, p. 151–177.
- Stanley, W.D., Labson, V.F., Nokleberg, W.J., Csejtey, B., Jr., and Fisher, M.A.,1990, The Denali fault system and Alaska Range of Alaska: Evidence for underplated Mesozoic flysch from magnetotelluric surveys: Geological Society of America Bulletin, v. 102, no. 2, p. 160–173.
- Stauder, William, 1959, A mechanism study: The earthquake of Oct. 24, 1927: Geofisica para e applicata, v. 44, p. 135–143.
- Stauder, William, 1960, The Alaska earthquake of July 10, 1958–Seismic studies: Seismology Society America Bulletin, v. 50, no. 2, p. 293–322.
- Stearns, S.R., 1965, Selected aspects of geology and physiography of the cold regions: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Cold Regions Science and Engineering Monograph 1–A1, 40 p.
- Stearns, S.R., 1966, Permafrost (perennially frozen ground): Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Cold Regions Science and Engineering Monograph 1–A2, 77 p.
- Steffy, D.A., Turner, B.W., Lybeck, L.D., and Roe, J.T., 1981, Isopach map of Holocene sedimentary units, Norton Sound, Alaska: U.S. Geological Survey Open-File Report 81–720, scale 1:250,000.
- Steiger, R.H., and Jager, E., 1977, Subcommission on geochronology; Convention on the use of decay constants in geo- and cosmochronology: Earth and Planetary Science Letters, v. 36, no. 3, p. 359–362.
- Stemper, B.A., Westgate, J.A., and Péwé, T.L., 1989, Tephrochronology and paleomagnetism of loess in Fairbanks area of interior Alaska [abs.]: 28th International Geological Congress, Washington, D.C., Abstracts, v. 2, p. 602.
- Stephens, C.D., Fogleman, K.A, Lahr, J.C., and Page, R.A., 1984, Wrangell Benioff zone, southern Alaska: Geology, v. 12, p. 373–376.
- Stephens, C.D., Lahr, J.C., Fogleman, K.A., and Horner, R.B., 1980, The St. Elias, Alaska, earthquake of February 28, 1979: Regional recording of aftershocks and short-term, pre-earthquake seismicity: Bulletin of the Seismological Society of America, v. 70, p. 1607–1633.
- Stevens, D.L., 1971, Geology and geochemistry of the Denali prospect, Clearwater Mountains, Alaska: Fairbanks, University of Alaska, Ph. D. dissertation, 81 p.
- Stewart, J.H., 1976, Late Precambrian evolution of North America: Plate tectonics implications: Geology, v. 4, p. 11 15.
- Still, J.C., and Weir, K.R., 1981, Mineral land assessment of the west portion of western Chichagof Island, southeastern Alaska: U.S. Bureau of Mines OpenFile Report 89–81, 168 p.
- Stone, D.B., 1982, Triassic paleomagnetic data and paleolatitudes for Wrangellia, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 73, p. 55–62.

- Stone, D.B., 1984, Concordance and conflicts in Alaskan paleomagnetic data, *in* Proceedings of the Circum-Pacific Terrane Conference: Palo Alto, Calif., Stanford University Publications in the Geological Sciences, v. 18, p. 186–189.
- Stone, D.B., and McWilliams, M.O., 1989, Paleomagnetic evidence for relative motion in western North America, *in* Ben-Avraham, Z., ed., Evolution of the Pacific Ocean Margins: Oxford, Oxford University Press, p. 53–72.
- Stone, D.B., and Packer, D.R.,1977, Tectonic implications of Alaska Peninsula paleomagnetic data: Tectonophysics, v. 37, p. 183–201.
- Stone, D.B., and Packer, D.R., 1979, Paleomagnetic data from the Alaska Peninsula: Geological Society of America Bulletin, v. 90, p. 545–560.
- Stone, D.B., Panuska, B.C., and Packer, D.R., 1982, Paleolatitudes versus time for southern Alaska: Journal of Geophysical Research, v. 87, p. 3697–3708.
- Stone, R.W., 1906, Coal fields of the Kachemak Bay region: U.S. Geological Survey Bulletin 277, p. 53–73.
- Stonely, R., 1967, The structural development of the Gulf of Alaska sedimentary province in southern Alaska: Quarterly Journal of the Geological Society of London, v. 123, p. 25–57.
- Stout, J.H., 1976, Geology of the Eureka Creek area, east-central Alaska Range: Fairbanks, Alaska Division of Geological and Geophysical Surveys Geologic Report 46, 32 p.
- Stout, J.H., and Chase, C.G., 1980, Plate kinematics of the Denali fault system: Canadian Journal of Earth Sciences, v. 17, p. 1527–1537.
- Stout, J.H., Brady, J.B., Weber, F.R., and Page, R.A., 1973, Evidence of Quaternary movement on the McKinley strand of the Denali in the Delta River area, Alaska: Geological Society of America Bulletin, v. 84, no. 3, p. 939–948.
- Stowell, H.H., 1985, Metamorphic pressures based on sphalerite geobarometry for the Coast Range megalineament zone, southeast Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 411.
- Streckeisen, A.L., 1973, Plutonic rocks; Classification and nomenclature recommended by the l.U.G.S. subcommission on the systematics of igneous rocks: Geotimes, v. 18, no. 10, p. 26–30.
- Streckeisen, A., 1976, To each plutonic rock its proper name: Earth Science Reviews, v. 12, p. 133.
- Streckeisen, A.,1979, Classification and nomenclature of volcanic rocks, lamprophyres, carbonatites, and melitic rocks; recommendations and suggestions of the IUGS Subcommission on the Systematics of Igneous Rocks: Geology, v.7, p. 331–335.
- Stricker, G.D., 1983, Coal occurrence, quality, and resource assessment, National Petroleum Reserve in Alaska [abs.], in U.S. Geological Survey polar research symposium—Abstracts with program: U.S. Geological Survey Circular 911, p. 32–33.
- Stricker, G.D., 1991, Economic Alaskan coal deposits, *in* Gluskoter, H.J., Rice, D.D., and Taylor, R.B., eds., Economic geology, U.S.: Boulder, Colo., Geological Society of America, The Geology of North America, v. P–2, p. 591–602.
- Sturnick, M.A., 1984, Metamorphic petrology, geothermo-barometry and geochronology of the eastern Kigluaik Mountains, Seward Peninsula: Fairbanks, University of Alaska, Master's thesis, 174 p.
- Styan, W.B., and Bustin, R.M., 1984, Sedimentology of Fraser River delta peat deposits: A modern analogue for some deltaic coals, *in* Rahmani, R.A., and Flores, R.M., eds., Sedimentology of coal and coal-bearing sequences (International Association of Sedimentologists Special Publication 7): Oxford, Blackwell Scientific Publications, p. 241–271.
- Sun, S.S., 1980, Lead isotope study of young volcanic rocks from mid-ocean ridges, oceanic islands, and island arcs: Philosophical Transactions of the Royal Society of London, Series A, v. 297, p. 409–445.
- Sun, S.S., and McDonough, W.F., 1989, Chemical and isotopic systematics of oceanic basalts; Implications for mantle composition and processes, *in* Saunders, A.D., and Norry, M.J., eds., Magmatism in the ocean basins: Geological Society of London Special Publication 42, p. 313–345.
- Sun, S.S., and Nesbitt, R.W., 1977, Chemical heterogeneity of the Archean mantle, composition of the Earth, and mantle evolution: Earth and Planetary Science Letters, v. 35, p. 429–448.
- Sun, S.S., Nesbitt, R.W., and Sharaskin, A.Y., 1979, Geochemical characteristics of mid-ocean ridge basalts: Earth and Planetary Science Letters, v. 44, p. 119–138.
- Sutter, J.F., and Crawford, M.L., 1985, Timing of metamorphism and uplift in the vicinity of Prince Rupert, British Columbia and Ketchikan, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 17, p. 411.

- Swainbank, R.C., and Forbes, R.B., 1975, Petrology of eclogitic rocks from the Fairbanks district, Alaska, *in* Forbes, R.B., ed., Contributions to geology of the Bering Sea Basin and adjacent regions: Geological Society of America Special Paper 151, p. 77–123.
- Swainbank, R.C., Smith, T.E., and Turner, D.L., 1977, Geology and K-Ar age of mineralized intrusive rocks from the Chulitna mining district, central Alaska, *in* Short notes on Alaskan Geology–1977: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Geologic Report 55, p. 23–28.
- Swanson, S.E., Bond, J.F., and Newberry, R.J., 1988, Petrogenesis of the Ear Mountain Tin Granite, Seward Peninsula, Alaska: Economic Geology, v.83, no. 1, p. 46–61.
- Swanson, S.E., Kay, S.M., Brearley, M., and Scarfe, C.M., 1987, Arc and back-arc xenoliths in Kurile-Kamchatka and western Alaska, *in* Nixon, P.H., ed., Mantle xenoliths New York, John Wiley, p. 303–318.
- Swanson, S.E., Turner, D.L., Forbes, R.B., Hopkins, D.M., 1981, Petrology and geochronology of Tertiary and Quaternary basalts from the Seward Peninsula, western Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 13, no. 7, p. 563.
- Swanston, D.N.,1969, A late Pleistocene glacial sequence from Prince of Wales Island, Alaska: Arctic, v. 32, p. 25–33.
- Sweeney, J.F., 1982, Arctic–Alaska, a two–stage displaced terrane [abs.], *in* Proceedings, 33'd Alaska Science Conference, Fairbanks, Alaska: American Association for the Advancement of Science, p. 146.
- Sykes, L.R., 1971, Aftershock zones of great earthquakes, seismicity gaps, and earthquake prediction for Alaska and the Aleutians: Journal of Geophysical Research, v. 76, p. 8021–8041.
- Symons, D.T.A., 1971, Paleomagnetic notes on the Karmutsen Basalts, Vancouver Island, British Columbia: Canada Geological Survey Paper 71–24, p. 11–24.
- Symons, D.T.A., 1974, Age and tectonic implications of paleomagnetic results from plutons near Prince Rupert, British Columbia: Journal of Geophysical Research, v. 79, p. 2690–2697.
- Szumigala, D.J., 1985, Geology of the Tin Creek zinc-lead skarn deposits, McGrath B-2 quadrangle, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Report of Investigations 85–50, 10 p.
- Taber, J.J., Billington, S., and Engdahl, E.R. [in press] Seismicity of the Aleutian arc: *in* Slemmons, D.B., Engdahl, E.R., Zoback, M.D., Zoback, M.L., and Blackwell, D., eds., Neotectonics of North America: Boulder, Colo., The Geological Society of America, CSM V–1.
- Taber, S., 1943, Perennially frozen ground in Alaska; Its origin and history: Geological Society of America Bulletin, v. 54, p. 1433–1548.
- Tailleur, I.L., 1965, Low-volatile bituminous coal of Mississippian age on the Lisburne Peninsula, northwestern Alaska: U.S. Geological Survey Professional Paper 525–B, p. B34–B38.
- Tailleur, I L., 1969, Speculations on North Slope geology: Oil and Gas Journal, v. 67, no. 38, p. 215-226.
- Tailleur, I.L., 1969, Rifting speculation on the geology of Alaska's North Slope: Oil and Gas Journal, v. 67, no. 39, p. 128–130.
- Tailleur, I.L., 1973, Possible mantle-derived rocks in western Brooks Range, *in* Geological Survey research 1973: U.S. Geological Survey Professional Paper 850, p. 64.
- Tailleur, I.L., 1973, Probable rift origin of Canada basin, Arctic Ocean, *in* Pitcher, M.G., ed., Arctic geology: American Association of Petroleum Geologists Memoir 19, p. 526–535.
- Tailleur, I.L., 1980, Rationalization of Koyukuk "crunch," northern and central Alaska [abs.]: American Association of Petroleum Geologists Bulletin, v.64, p. 792.
- Tailleur, I.L., 1982, Minimum radiometric age for Norian rocks, Late Triassic, northern Alaska [abs.], *in* Odin, G.S., ed., Numerical dating in stratigraphy, Part 1: John Wiley and Sons, p. 934–938.
- Tailleur, I.L., and Brosgé, W.P., 1970, Tectonic history of northern Alaska, *in* Adkinson, W.L., and Brosgé, M.M., eds., Proceedings of the Geological Seminar on the North Slope of Alaska: Los Angeles, American Association of Petroleum Geologists, Pacific Section Meeting, p. E1–E20.
- Tailleur, I.L., and Brosgé, W.P.,1976, Coal resources of northern Alaska may be nation's largest, *in* Rao, P.D., and Wolff, E.N., eds., Focus on Alaska's Coal '75 (Conference proceedings, University of Alaska, Fairbanks, October 15-17, 1975): University of Alaska Mineral Industries Research Laboratory Report no. 37, p. 219–226.
- Tailleur, I.L., and Sable, E.G., 1963, Nuka Formation of Late Mississippian to Late Permian age, new formation in northern Alaska: American Association Petroleum Geologists Bulletin, v. 47, p. 632–642.

- Tailleur, I.L., and Weimer, P., eds., 1987, Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols 1 and 2, 874 p.
- Tailleur, I.L., Brosgé, W.P., and Reiser, H.N., 1967, Palinspastic analysis of Devonian rocks in northwestern Alaska, *in* Oswald, D.H., ed., International symposium on the Devonian system, v. 2: Calgary, Alberta Society of Petroleum Geologists, p. 1345–1361.
- Tailleur, I.L., Brosgé, W.P., and Reiser, H.N.,1967, Oil shale in Christian region of northeastern Alaska: U.S. Geological Survey Professional Paper 575, p. A12.
- Tailleur, I.L., Ellersieck, I.F., and Mayfield, C.F., 1977, Mineral resources of the western Brooks Range, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B24–B25.
- Tailleur, I.L., Enwicht, S.E., Pessel, G.H., and Leverson, J.A., 1978, Maps showing land status and well locations and tables of well data, eastern North Slope petroleum province, Alaska: U.S. Geological Survey Miscellaneous Field Investigations Map MF 928–A, 5 sheets, scale 1:500,000.
- Tailleur, I.L., Kent, B.H., and Reiser, H.N., 1966, Outcrop geologic maps of the Nuka-Etivluk region, northern Alaska: U.S. Geological Survey Open-File Report 66–128, 7 sheets, scale 1:63,360.
- Tailleur, I.L., Mamet, B.L., and Dutro, J.T., Jr., 1973, Revised age and structural interpretation of Nuka formation at Nuka Ridge, northwestern Alaska: American Association of Petroleum Geologists Bulletin, v. 57, p. 1348–1352.
- Tailleur, I.L., Mayfield, C.F., and Ellersieck, I.F.,1977, Late Paleozoic sedimentary sequence, southwestern Brooks Range, in Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B25–B27.
- Tailleur, I.L., Pessel, G.H., and Engwicht, S.E., 1978, Subcrop map at Lower Cretaceous unconformity and maps of Jurassic and Lower Cretaceous seismic horizons, eastern North Slope petroleum province, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–9281, scale 1:500,000.
- Tarnocai, C.,1989, Paleosols of northwestern Canada, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 39–44.
- Tarr, R.S., and Martin, L., 1912, The earthquakes at Yakutat Bay, Alaska, in September 1989, U.S. Geological Survey Professional Paper 69, 135 p.
- Tarr, R.S., and Martin, L., 1914, Alaskan glacier studies: Washington, D.C., National Geographic Society, 498 p.
- Tatsumi, Y., Hamilton, D.L., and Nesbitt, R.W., 1986, Chemical characteristics of fluid phase released from a subducted lithosphere and origin of arc magmas; evidence from high-pressure experiments and natural rocks: Journal of Volcanology and Geothermal Research, v. 29, p. 293–309.
- Taylor, H.P., Jr., 1967, The zoned ultramafic complexes of southeastern Alaska, *in* Wyllie, P.J., ed., Ultramafic and related rocks: New York and London, John Wiley and Sons, p. 97–121.
- Taylor, H.P.,1968, The oxygen isotope geochemistry of igneous rocks: Contributions to Mineralogy and Petrology, v. 19, p. 1–71.
- Taylor, H.P., and Coleman, R.G., 1968, 0 ¹⁸/0 ¹⁶ ratios of co-existing minerals in glaucophane-bearing metamorphic rocks: Geological Society of America Bulletin, v. 79, p. 1727–1756.
- Taylor, H.P., and Noble, J.A., 1969, Origin of magnetite in the zoned ultramafic complexes of southeastern Alaska, *in* Wilson, H.D.B., ed., Magmatic ore deposits; A Symposium: Economic Geology Publishing Co., p. 209–230.
- Taylor, P.T., and O'Neill, N.J., 1974, Results of an aeromagnetic survey in the Gulf of Alaska: Journal of Geophysical Research, v. 79, no. 5, p. 719–723.
- Taylor, P.T., Kovacs, L.C., Vogt, P.R., and Johnson, G.L., 1981, Detailed aeromagnetic investigation off the Arctic basin, 2: Journal of Geophysical Research, v. 86, no. B7, p. 6323–6333.
- Taylor, S.R., 1969, Trace element chemistry of andesites and associated calcalkaline rocks, *in* McBirney, A.R., ed., Proceedings of the Andesite Conference: Oregon Department of Geology and Mineral Resources Bulletin, v. 65, p. 43–64.
- Taylor, S.R., and McLennan, S.M., 1985, The continental crust; Its composition and evolution: Boston, Blackwell Scientific Publications, 312 p.
- Tedrow, J.C.F., 1977, Soils of the polar landscapes: New Brunswick, New Jersey, Rutgers University Press, 638 p.

- Teichmueller, M., and Teichmueller, R., 1968, Geological aspects of coal metamorphism, *in* Murchison, D., and Westoll, T.S., eds., Coal and coal-bearing strata: New York, Elsevier, p. 233–267.
- Tempelman-Kluit, D.J., 1971, Stratigraphy and structue of the "Keno Hill Quartzite" in Tombstone River-Upper Klondike River map areas, Yukon Territory: Geological Survey of Canada Bulletin 180, 102 p.
- Tempelman-Kluit, D.J., 1976, The Yukon Crystaline terrane; Enigma in the Canadian Cordillera: Geological Society of America Bulletin, v. 87, p. 1343–1357.
- Tempelman-Kluit, D.J., 1977, Stratigraphic and structural relations between the Selwyn basin, Pelly-Cassiar platform, and Yukon crystalline terrane in Pelly Mountains, Yukon: Geological Survey of Canada Paper 77–1A, p. 223–227.
- Tempelman-Kluit, D.J., 1979, Transported cataclasite, ophiolite, and granodiorite in Yukon; Evidence of arc-continent collision: Geological Survey of Canada Paper 79–14, 27 p.
- Tempelman-Kluit, D.J., 1984, Counterparts of Alaska's terranes in Yukon [abs.], *in* Symposium; Cordilleran Geology and Mineral Exploration Status and Future Trends, Vancouver, B.C., Canada, Feb. 20–21, 1984: Cordilleran Section, Geological Association of Canada, p. 41–44.
- Tempelman-Kluit, D.J., and Wanless, R.K., 1975, Potassium-argon age determinations of metamorphic and plutonic rocks in the Yukon Crystalline Terrane: Canadian Journal of Earth Sciences, v. 12, no. 11, p. 1895–1909.
- Tempelman-Kluit, D.J., and Wanless, R.K., 1980, Zircon ages for the Pelly Gneiss and Klotassin Granodiorite in western Yukon: Canadian Journal of Earth Sciences, v. 17, no. 3, p. 297–306.
- Ten Brink, N.W., and Waythomas, C.F.,1985, Late Wisconsin glacial chronology of the north-central Alaska Range; A regional synthesis and its implications for early human settlements, *in* Powers, W.R., and others, eds., North Alaska Range Early Man Project: National Geographic Society Research Reports, v. 19, p. 15–32.
- Ten Brink, N.W.,1983, Glaciation of the northern Alaska Range [abs.], *in* Thorson, R.M., and Hamilton, T.D., eds., Glaciation in Alaska; Extended abstracts from a workshop: Fairbanks, University of Alaska Museum Occasional Paper 2, p. 82–91.
- Tera, F., Brown, L., Morris, J., and Sacks, S., 1986, Sediment incorporation in island-arc magmas; Inference from ¹⁰Be: Geochimica et Cosmochimica Acta, v. 50, p. 535–550.
- Terzaghi, K., 1952, Permafrost: Boston Society of Civil Engineers Journal, v. 39, no. 1, p. 1–50.
- Texas Instruments, Inc., 1975, National Uranium Resource Evaluation airborne geophysical survey, Copper River and Seward-Selawik areas, Alaska: U.S. Energy Research and Development Administration, Grand Junction Office, Report GJO 1653, scale 1:500,000.
- Texas Instruments, Inc., 1977, National Uranium Resource Evaluation aerial gamma ray and magnetic survey of the Bethel and Yukon areas, Alaska: U.S. Energy Research and Development Administration, Grand Junction Office, Report GJBX 5(77), v. 2, scale 1:500,000.
- Texas Instruments, Inc., 1978, National Uranium Resource Evaluation aerial radiometric and magnetic reconnaissance survey of the Eagle-Dillingham area, Alaska Final Report: U.S. Energy Research and Development Administration, Grand Junction Office, Report GJBX 113(78), v. 2, scale 1:500,000.
- Thenhaus, P.C., Ziony, J.I., Diment, W.H., Hooper, M.G., Perkins, D.M., Hanson, S.L., and Algermissen, S.T., 1985, Probabilistic estimates of maximum seismic horizontal ground acceleration on rock in Alaska and the adjacent continental shelf: Earthquake Spectra, v. 1, p. 285–306.
- Thomas, B.I.,1973, Gold-lode deposits, Fairbanks mining district, central Alaska: U.S. Bureau of Mines Information Circular 8604, 16 p.
- Thomas, B.I., and Berryhill, R.V., 1962, Reconnaissance studies of Alaskan beach sands, eastern Gulf of Alaska: U.S. Bureau of Mines Report of Investigations 5986, 40 p.
- Thompson, A.B., 1976, Mineral reactions in pelitic rocks; 2, calculation of some P-T-X(Fe–Mg) phase relations: American Journal of Science, v. 276, no. 4, p. 425–454.
- Thompson, R.I., and Eisbacher, G.H., 1984, Late Proterozoic rih assemblages, northern Canadian Cordillera [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 336.
- Thompson, R.I., and Roots, C.F., 1982, Ogilvie Mountains project, Yukon; Part A, A new regional mapping program, in Current Research, part A: Geological Survey of Canada Paper 82–1 A, p. 403–411.
- Thompson, R.I., Mercier, E., and Roots, C.F., 1987, Extension and its influence on Canadian Cordilleran passive-margin evolution, *in* Coward, M.P., Dewey, J.F., and Hancock, P.L., eds., Continental extensional tectonics: Geological Society of London Special Publication 28, p. 409–417.

- Thompson, R.N., Morrison, M.A., Dickin, A.P., and Hendry, G.L., 1983, Continental flood basalts; Arachnids rule OK?, *in* Hawkesworth, C.J., and Norry, M.J., eds., Continental basalts and mantle xenoliths: Cheshire, United Kingdom, Shiva Publications, p. 158–185.
- Thompson, R.N., Morrison, M.A., Hendry, G.L., and Parry, S.J., 1984, An assessment of the relative roles of crust and mantle in magma genesis; an elemental approach: Philosophical Transactions of the Royal Society of London, series A, v. 310, p. 549–590.
- Thompson, T.B., Pierson, J.R., and Lyttle, T., 1982, Petrology and petrogenesis of the Bokan Mountain Granite complex, southeastern Alaska: Geological Society of America Bulletin, v. 93, p. 898–908.
- Thompson, T.B., Lyttle, Thomas and Pierson, J.R., 1980, Genesis of the Bokan Mountain, Alaska, uranium thorium deposits: U.S. Department of Energy Report, GJBX–38(80), 232 p., 4 plates.
- Thorkelson, D.J., and Smith, A.D., 1989, Arc and intraplate volcanism in the Spences Bridge Group: Implications for Cretaceous tectonics in the Canadian Cordillera: Geology, v. 17, p. 1093–1096.
- Thorne, R.L., and Wells, R.R., 1956, Studies of the Snettisham magnetite deposits, southeastern Alaska: U.S. Bureau of Mines Report of Investigation 5195, 41 p.
- Thorson, R.M., 1979, Recurrent Late Quaternary faulting near Healy Alaska: Fairbanks, Division of Geological and Geophysical Surveys, Geologic Report no. 61, p. 10–14.
- Thorson, R.M., 1986, Late Cenozoic glaciation of the northern Nenana River valley, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 99–121
- Thorson, R.M., and Hamilton, T.D., 1986, Glacial geology of the Aleutian Islands, Based on the contributions of Robert F. Black, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 171–191.
- Thorson, R.M., Dixon, E.J., Jr., Smith, G.S., and Batten, A.R.,1981, Interstadial proboscidean from south-central Alaska; Implications for biogeography, geology, and archeology: Quaternary Research, v. 16, p. 404–417.
- Thorson, R.M., Plaskett, D.C., and Dixon, E.J., Jr., 1980, A reported early-man site adjacent to southern Alaska's continental shelf: A geologic solution to an archaeologic enigma: Quaternary Research, v. 13, p. 259–273.
- Thrasher, G.P., 1979, Geologic map of the Kodiak Outer Continental Shelf, western Gulf of Alaska: U.S. Survey Open-File Report 79–1267, 2 sheets, scale 1:250,000.
- Throckmorton, M.L., and Patton, W.W., Jr., 1978, Contact-metasomatic magnetite deposit, Medfra quadrangle, Alaska: U.S. Geological Survey Open-File 78–26, 13 p.
- Thrupp, G.A., and Coe, R.S., 1984, Paleomagnetism of Tertiary volcanic rocks from the Alaska Peninsula; Is the Peninsular terrane a coherent tectonic entity? [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 337.
- Thrupp, G.A., and Coe, R.S., 1986, Early Tertiary paleomagnetic evidence and the displacement of southern Alaska: Geology, v. 14, no. 3, p. 213–217.
- Thrupp, G.A., and Coe, R.S., 1986, Paleomagnetic evidence for counterclockwise rotation of west-central Alaska since the Paleocene [abs.]: EOS (Transactions of the American Geophysical Union), v. 67, no. 44, p. 921.
- Thurston, D.K., and Theiss, L.A., 1987, Geologic report for the Chukchi Sea planning area, Alaska; Regional geology, petroleum geology, and environmental geology: Anchorage, Alaska, U.S. Minerals Management Service OCS Report MMS 87 0046, 193 p.
- Thurston, S.P., 1985, Structure, petrology, and metamorphic history of the Nome Group blueschist terrane, Salmon Lake area, Seward Peninsula, Alaska: Geological Society of America Bulletin, v. 96, p. 600–617.
- Till, A.B., 1980, Crystalline rocks of the Kigluaik Mountains, Seward Peninsula, Alaska: Seattle, University of Washington, Master's thesis 97 p.
- Till, A.B., 1983, Granulite, peridotite, and blueschist; Precambrian to Mesozoic history of Seward Peninsula, *in* Western Alaska geology and resource potential; Proceedings of the 1982 Symposium: Journal of the Alaska Geological Society, p. 59–66.
- Till, A.B., 1984, Low-grade metamorphic rocks of Seward Peninsula, Alaska [abs.]: Geological Society of America Abstracts with Programs, v.16, no. 5, p. 337.
- Till, A.B., 1988, Evidence for two Mesozoic blueschist belts in the hinterland of the western Brooks Range fold and thrust belt [abs.]: Geological Society of America Abstracts with Program, v. 21, no. 7, p. A1–12.

- Till, A.B., 1989, Proterozoic rocks of the western Brooks Range, in Dover, J.H., and Galloway, J.P., eds., Geologic studies in Alaska by the U.S. Geological Survey, 1988: U.S. Geological Survey Bulletin 1903, p. 20–25.
- Till, A.B., 1992, Detrital blueschist-facies metamorphic mineral assemblages in Early Cretaceous sediments of the foreland basin of the Brooks Range, Alaska, and implications for orogenic evolution: Tectonics, v. 11, p. 1207–1223.
- Till, A.B., and Patrick, B.E., 1991, Ar-Ar evidence for a 110 –105 Ma amphibolite-facies overprint on blueschist in the south-central Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 23, p. A436.
- Till, A.B., Box, S.E., Roeske, S.M., and Patton, W.W., Jr., 1993, Comment on Mid-Cretaceous extensional fragmentation of a Jurassic Early Cretaceous compressional origin, Alaska, *by* Miller, E.L.and Hudson, T.L.: Tectonics, v. 12, no. 4, p. 1076–1081.
- Till, A.B., Dumoulin, J.A., Aleinikoff, J.N., Harris, A., and Carroll, P.1.,1983, Paleozoic rocks of the Seward Peninsula; New insight; New Developments in the Paleozoic Geology of Alaska and the Yukon [abs.]: Alaska Geological Society Symposium Program and Abstracts, p. 25–26.
- Till, A.B., Dumoulin, J.A., Gamble, B.M., Kaufman, D.S., and Carroll, P.I., 1986, Preliminary geologic map and fossil data, Solomon, Bendeleben, and southern Kotzebue quadrangles, Seward Peninsula, Alaska: U.S. Geological Survey Open-File Report 86–276, 18 p., 1 sheet, scale 1:250,000.
- Till, A.B., Schmidt, J.M., and Nelson, S.W., 1987, Thrust-involvement of Proterozoic and Mesozoic metamorphic rocks, southwestern Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs v. 19, p. 458.
- Till, A.B., Schmidt, J.M., and Nelson, S.W., 1988, Thrust involvement of metamorphic rocks, southwestern Brooks Range, Alaska: Geology, v. 16, p. 930–933.
- Till, B.S., 1988, Preliminary geologic map of the western Shublik Mountains, Arctic National Wildlife Refuge, northeastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data-File 88–6a, 13 p., scale 1:25,000.
- Tinnel, E.P., and Hinze, W.J., 1981, Preparation of magnetic anomaly profile and contour maps from DOE-NURE Aerial Survey Data U.S. Department of Energy Open-File Report GJBX-177(81).
- Tobin, D.G., and Sykes, L.R., 1966, Relationship of hypocenters of earthquakes to the geology of Alaska: Journal of Geophysical Research, v. 71, p. 1659–1667.
- Tobin, D.G., and Sykes, L.R., 1968, Seismicity and tectonics of the northeast Pacific Ocean: Journal of Geophysical Research, v. 73, p. 3821–3845.
- Tocher, Don, 1960, The Alaska earthquake of July 10, 1958–Movement on the Fairweather fault and field investigation of southern epicentral region: Seismology Society America Bulletin, v. 50, no. 2, p. 267–292.
- Toenges, A.L., and Jolley, T.R., 1947, Investigation of coal deposits for local use in the Arctic regions of Alaska and proposed mine development: U.S. Bureau of Mines Report of Investigations 4150, 19 p.
- Tolson, R.B., 1986, Structure and stratigraphy of the Hope Basin, *in* Scholl, D.W., ed., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja California: Houston, Tex., Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 6, p. 59–72.
- Toth, M.I., 1981, Petrology, geochemistry, and origin of the Red Mountain ultramafic body near Seldovia, Alaska: U.S. Geological Survey Open-File Report 81–514, 86 p.
- Tozer, E.T., 1982, Marine Triassic faunas of North America; Their significance for assessing plate and terrane movements: Geologische Rundschau, v. 71, p. 1077–1104.
- Trettin, H.P., and Balkwill, H.R., 1979, Contributions to the tectonic history of the Innuitian Province, Arctic Canada: Canadian Journal of Earth Sciences, v. 16, no. 3, p. 748–769.
- Trettin, H.P., coordinator, 1972, The Innuitian Province, *in* Price, R.A., and Douglas, R.J.W., eds., Variations in tectonic styles in Canada: Canada Geological Association Special Paper 11, p. 83–180.
- Triplehorn, D.M., Turner, D.L., and Naeser, C.W., 1984, Radiometric age of the Chickaloon Formation of south-central Alaska; location of the Paleocene-Eocene boundary: Geological Society of America Bulletin, v. 95, p. 740–742.
- Triplehorn, D.M., Turner, D.L., and Naeser, C.W., 1977, K-Ar and fission-track dating of ash partings in coal beds from the Kenai Peninsula, Alaska: a revised age for the Homerian Stage-Clamgulchian Stage boundary: Geological Society of America Bulletin, v. 88, no. 8, p. 1156–1160.
- Tsvetkov, A.A., 1991, Magmatism of the westernmost (Komandorsky) segment of the Aleutian Island Arc: Tectonophysics, v. 199, p. 289–317.

- Tsvetkov, A.A., Fedorchuk, A.V., and Gladenkov, A.Yu., 1990, Geology and magmatic evolution of Bering Island: International Geology Review, v. 32, p. 1202–1217.
- Turcotte, D.L., 1987, Physics of magma segregation processes: The Geochemical Society Special Publication 1, p. 69-74.
- Turner, B.R., and Whateley, M.K.C., 1989, Tidally influenced coal-bearing sediments in the Tertiary Bering River coalfield, south-central Alaska: Sedimentary Geology, v. 61, p. 111–123.
- Turner, D.L.,1984, Tectonic implications of widespread Cretaceous overprinting of K-Ar ages in Alaskan metamorphic terranes [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 338.
- Turner, D.L., and Forbes, R.B., 1980, A geological and geophysical study of the geothermal energy potential of Pilgrim Springs, Alaska: Fairbanks, University of Alaska Geophysical Institute Report UAG R-271, 165 p.
- Turner, D.L., and Nye, C.J., 1986, Geochronology of eruptive events at Mt. Spurr, Alaska, *in* Turner, D.L., and Westcott, E.N., eds., Geothermal energy resource investigations at Mt. Spurr, Alaska: University of Alaska Geophysical Institute Report R–308, p. 2.1–2.8.
- Turner, D.L., and Smith, T.E., 1974, Geochronology and generalized geology of the central Alaska Range, Clearwater Mountains and northern Talkeetna Mountains: Fairbanks, Alaska Division of Geological and Geophysical Surveys Open-File Report AOF–72, 10 p., 1 plate, scale 1:250,000.
- Turner, D.L., and Swanson, S.E., 1981, Continental rifting—a new tectonic model for the central Seward Peninsula *in* Westcott, E.N., and Turner, D.L., eds., Geothermal reconnaissance survey of the central Seward Peninsula: Fairbanks, University of Alaska, Geophysical Institute Report UAG R–284, p. 7–36.
- Turner, D.L., and Wescott, E.M., 1982, A preliminary investigation of the geothermal energy resources of the lower Susitna Basin: Fairbanks, University of Alaska Geophysical Institute Report UAG R–287, 49 p.
- Turner, D.L., and 5 others, 1980, Geothermal energy resources of Alaska: Fairbanks, University of Alaska Geophysical Institute Report UAG R-279, 19 p.
- Turner, D.L., Forbes, R.B., Aleinikoff, J.N., Hedge, C.E., and McDougall, I., 1983, Geochronology of the Kilbuck terrane of southwestern Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 15, p. 407.
- Turner, D.L., Forbes, R.B., and Dillon, J.T., 1979, K-Ar geochronology of the southwestern Brooks Range, Alaska: Canadian Journal of Earth Sciences, v. 16, p. 1789–1804.
- Turner, D.L., Forbes, R.D., and Mayfield, C.F., 1978, K-Ar geochronology of the Survey Pass, Ambler River and eastern Baird Mountains quadrangles, southwestern Brooks Range, Alaska: U.S. Geological Survey Open-File Report 78–254, 41 p., 3 sheets, scale 1:250,000.
- Turner, D.L., Forbes, R.B., and Naeser, C.W., 1973, Radiometric ages of Kodiak Seamount and Giacomini Guyot, Gulf of Alaska; implications for circum-Pacific tectonics: Science, v. 182, no. 4112, p. 579–781.
- Turner, D.L., Herreid, Gordon, and Bundtzen, T.K., 1977, Geochronology of southern Prince of Wales Island, Alaska, *in* Short notes on Alaskan Geology–1977: Fairbanks, Alaska Division of Geological and Geophysical Surveys, Geologic Report 55, p. 11–16.
- Turner, D.L., Jarrard, R.D., and Forbes, R.B., 1980, Geochronology and origin of the Pratt-Welker Seamount chain, Gulf of Alaska: a new pole of rotation for the Pacific plate: Journal of Geophysical Research, v. 85, no. 11, p. 6547–6556.
- Turner, D.L., Smith, T.E., and Forbes, R.B., 1974, Geochronology of offset along the Denali fault system in Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 6, p. 268–269.
- Turner, D.L., Swanson, S.E., and Wescott, E., 1981, Continental rifting; A new tectonic model for geothermal exploration of the central Seward Peninsula, Alaska: Geothermal Resources Council Transactions, v. 5, p. 213–216.
- Turner, D.L., Triplehorn, D.M., Naesser, C.W., and Wolfe, J.A., 1980, Radiometric dating of ash partings in Alaska coal beds and upper Tertiary paleobotanical stages: Geology, v. 8, p. 92–96.
- Turner, F.J., 1981, Metamorphic petrology; Mineralogical, field, and tectonic aspects, 2nd ed.: New York, McGraw-Hill, 524 p.
- Turner, R.F., and 5 others, 1983, Geological and operational summary Norton Sound COST no. 1 well Norton Sound, Alaska: U.S. Geological Survey Open-File Report 83–124, 164 p.
- Turner, R.F., and 6 others, 1983, Geological and operational summary Norton Sound COST No. 2 well Norton Sound, Alaska: U.S. Geological Survey Open-File Report 83–557, 164 p.
- Turner, R.F., and 6 others, 1984, Geological and operational summary St. George Basin COST No. I well Bering Sea, Alaska: Minerals Management Service OCS Report MMS 84–16, 105 p.

- Turner, R.F., and 6 others, 1984, Geological and operational summary St. George Basin COST No. 2 well Bering Sea, Alaska: Minerals Management Service OCS Report MMS 84–18, 100 p.
- Turner, R.F., and 7 others, 1984, Geological and operational summary Navarin Basin COST No. 1 well Bering Sea, Alaska: Minerals Management Service OCS Report MMS 84–31, 245 p.
- Turner, R.F., ed., 1987, Geological and operational summary, Kodiak shelf stratigraphic test wells, western Gulf of Alaska: Anchorage, Alaska, Minerals Management Service, Outer Continental Shelf Report MMS 87–0109, 341 p.
- Turner, R.F., Martin, G.C., Risley, D.E., Steffy, D.A., Flett, T.O., and Lynch, M.B., 1986, Geologic report for the Norton Basin planning area, Bering Sea, Alaska: Minerals Management Service OCS (Outer Continental Shelf) Report MMS 86–0033, 179 p.
- Turner, R.F., Bolm, J.G., McCarthy, C.M., Steffy, D.A., Lowry, P., Flett, T.O., and Blunt, D., 1983, Geological and operational summary, Norton Sound COST No.2 well, Norton Sound, Alaska: U.S. Geological Survey Open-File Report 83–557.
- Turner, R.F., Bolm, J.G., McCarthy, C.M., Steffy, D.A., Lowry, Paul, and Flett, T.O., 1983, Geological and operational summary, Norton Sound COST No. 1 Well, Norton Sound, Alaska: U.S. Geological Survey Open-File Report 83–124, 168 p.
- Turner, R.F., Martin, G.C., Flett, T.O., and Steffy, D.A., 1985, Geological report for the Navarin basin planning area, Bering Sea, Alaska: U.S. Department of the Interior, Minerals Management Service Open-File Report 85–9945.
- Twenhofel, W.S., 1952, Geology of the Alaska-Juneau lode system, Alaska: U.S. Geological Survey Open-File Report 52–160, 170 p.
- Twenhofel, W.S., and Sainsbury, C.S., 1958, Fault patterns in southeastern Alaska: Geological Society of America Bulletin, v. 69, p. 1431–1442.
- Tysdal, R.G., and Case, J.E., 1979, Geologic map of the Seward and Blying Sound quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–1150, 12 p., scale 1:250,000.
- Tysdal, R.G., and Plafker, G., 1978, Age and continuity of the Valdez Group, southern Alaska, *in* Sohl, N.F., and Wright, W.B., compilers, Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1977: U.S. Geological Survey Bulletin 1457–A, p. 120–131.
- Tysdal, R.G., Case, J.E., Winkler, G.R., and Clark, S.H.B., 1977, Sheeted dikes, gabbro, and pillow basalt in flysch of coastal southern Alaska: Geology, v.5, p. 377–383.
- Tysdal, R.G., and Case, J.E., 1979, Geologic map of the Seward and Blying Sound quadrangles, Alaska: U.S. Geological Survey Miscellaneous Investigations Series I–1150, 12 p., 1 sheet, scale 1:250,000.
- Tysdal, R.G., Hudson, Travis, and Plafker, George, 1976, Geologic map of the Cordova B-2 quadrangle and northern part of the Cordova A-2 quadrangle, south-central Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–783, 1 sheet, scale 1:63,360.
- Tysdal, R.G., Hudson, Travis, and Plafker, George, 1976, Surface features and recent movement along the Ragged Mountain fault, south-central Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF–782, scale 1:24,000.
- U.S. Geological Survey Preliminary Determinations of Epicenters and associated Earthquake Data Reports and Monthly Listings, January 1961 present (formerly by U.S. Coast and Geodetic Survey, U.S. Environmental Science Services Administration, and U.S. National Oceanic and Atmospheric Administration).
- U.S. Geological Survey, 1960, Refinement of the geologic time scale, *in* Geological Survey Research, 1960: U.S. Geological Survey Professional Paper 400A, p. A69.
- U.S. Geological Survey, 1965, Undevitrified Late Triassic glass from Alaska, *in* Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525–A, p. A148.
- U.S. Geological Survey, 1965, Radiometric dating of deposits of Yarmouth age, *in* Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525–A, p. A102–A103.
- U.S. Geological Survey, 1969, Airborne geophysical surveys in Seward Peninsula area, Alaska: U.S. Geological Survey Open-File Report [69–294], scale 1:63,360.
- U.S. Geological Survey, 1972, Aeromagnetic data from S.W. Naval Petroleum Reserve, Alaska: U.S. Geological Survey Open-File Report [72–383], scale 1:250,000.
- U.S. Geological Survey, 1973, Aeromagnetic survey, eastern part of Bettles quadrangle, northeast Alaska: U.S. Geological Survey Open-File Report [73–305], scale 1:250,000.

- U.S. Geological Survey, 1973, Aeromagnetic survey, eastern part of Wiseman quadrangle, northeast Alaska: U.S. Geological Survey Open-File Report [73–306], scale 1:250,000.
- U.S. Geological Survey, 1973, Aeromagnetic survey, Tanana quadrangle, northeast Alaska: U.S. Geological Survey Open-File Report [73–308], scale 1:250,000.
- U.S. Geological Survey, 1973, Aeromagnetic survey, western half of Beaver quadrangle, northeast Alaska: U.S. Geological Survey Open-File Report [73–309], scale 1:250,000.
- U.S. Geological Survey, 1973, Aeromagnetic survey, western half of Livengood quadrangle, northeast Alaska: U.S. Geological Survey Open-File Report [73–311], scale 1:250,000.
- U.S. Geological Survey, 1974, Aeromagnetic map of the Circle quadrangle, northeastern Alaska: U.S. Geological Survey Open-File Report [74–1101], scale 1:250,000.
- U.S. Geological Survey, 1974, Aeromagnetic map of the eastern half of the Beaver quadrangle, northeastern Alaska: U.S. Geological Survey Open-File Report [74–1102], scale 1:250,000.
- U.S. Geological Survey, 1974, Aeromagnetic map of the eastern half of the Livengood quadrangle, northeastern Alaska: U.S. Geological Survey Open-File Report [74–1104], scale 1:250,000.
- U.S. Geological Survey, 1974, Dating minerals from a deep test hole, *in* Geological Survey Research 1974: U.S. Geological Survey Professional Paper 900, p. 145.
- U.S. Geological Survey, 1976, Aeromagnetic survey of the west one-half of the Ruby 1:250,000 quadrangle, Alaska: U.S. Geological Survey Open-File Report 76–188, scale 1:250,000.
- U.S. Geological Survey, 1976, Geological Survey Research 1976: U.S. Geological Survey Professional Paper 1000, p. 84.
- U.S. Geological Survey, 1977, Aeromagnetic survey of the Ketchikan, Prince Rupert, and northeastern Craig quadrangles, Alaska: U.S. Geological Survey Open-File Report 77–359, scale 1:250,000.
- U.S. Geological Survey, 1978, Aeromagnetic map of the Lake Clark 1°x3° quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–1086, scale 1:250,000.
- U.S. Geological Survey, 1978, Samarium-neodymium systematics, in gabbro from Fairweather Range in Alaska, *in* Geological Survey research 1978: U.S. Geological Survey Professional Paper 1100, p. 192.
- U.S. Geological Survey, 1979, Aeromagnetic map of part of the Valdez 1°x3° quadrangle, Alaska: U.S. Geological Survey Open-File Report 79–381, scale 1:250,000.
- U.S. Geological Survey, 1979, Aeromagnetic map of parts of the Cordova and Middleton Island 1°x3° quadrangles, Alaska: U.S. Geological Survey Open-File Report 79–223, scale 1:250,000.
- U.S. Geological Survey, 1979, Aeromagnetic map of the Medfra 1°x3° quadrangle, Alaska: U.S. Geological Survey Open-File Report 79–380, scale 1:250,000.
- U.S. Geological Survey, 1979, Aeromagnetic map of the Petersburg area, Alaska: U.S. Geological Survey Open-File Report 79–832, scale 1:250,000.
- U.S. Geological Survey, 1979, Aeromagnetic map of Yakobi and Chichagof Islands, Alaska: U.S. Geological Survey Open-File Report 79–529, scale 1:250,000.
- U.S. Geological Survey, 1979, Mesozoic radiometric ages in Precambrian rocks, *in* Geological Survey research, 1979: U.S. Geological Survey Professional Paper 1150, p. 95.
- U.S. Geological Survey, 1979, Preliminary Proterozoic lead ages on zircon from augen gneiss, Big Delta quadrangle, *in* Geological Survey Research, 1979: U.S. Geological Survey Professional Paper 1150, p. 96.
- U.S. Geological Survey, 1979, Trondhjemite in the Talkeetna Mountains, south-central Alaska, *in* Geological Survey Research, 1979: U.S. Geological Survey Professional Paper 1150, p. 97.
- U.S. Geological Survey, 1980, Aeromagnetic map of Afognak Island and vicinity, Alaska: U.S. Geological Survey Open-File Report 80–57, scale 1:250,000.
- U.S. Geological Survey, 1981, Aeromagnetic map of the Ugashik-Karluk area, Alaska: U.S. Geological Survey Open-File Report 81–1156, scale 1:250,000.
- U.S. Geological Survey, 1983, Aeromagnetic map of the Killik River and Chandler Lake 1°x3° quadrangles, Alaska: U.S. Geological Survey Open-File Report 83–607, scale 1:250,000.
- U.S. Geological Survey, 1984, Aeromagnetic map of parts of the Ugashik and Karluk 1°x3° quadrangles, Alaska: U.S. Geological Survey Open-File Report 84–351, scale 1:250,000.

- U.S. Geological Survey, 1984, Aeromagnetic map of the Craig area, Alaska: U.S. Geological Survey Open-File Report 84–666, scale 1:250,000.
- U.S. Geological Survey, 1984, Aeromagnetic map of the Juneau area, Alaska: U.S. Geological Survey Open-File Report 84–296, scale 1:250,000.
- U.S. Geological Survey, 1985, Aeromagnetic map of part of the Wrangell Mountains, Alaska: U.S. Geological Survey Open-File Report 85–605, scale 1:250,000.
- U.S. Geological Survey, 1965, Age of Ordovician and Devonian mafic rocks in northern Alaska, *in* Geological Survey Research 1965: U.S. Geological Survey Professional Paper 525–A, p. A101–A102.
- US. Geological Survey and Minerals Management Service, 1988, National Assessment of undiscovered conventional oil and gas resources; Working paper: U.S. Geological Survey Open–File
- Umhoefer, P.J., 1987, Northward translation of "Baja British Columbia" along the Late Cretaceous to Paleocene margin of western North America: Tectonics, v. 6, p. 377–394.
- Umhoefer, P.J., Dragovich, J.C., and Engebretsen, D.C., 1989, Refinements of the "Baja British Columbia" plate-tectonic model for northward translation along the Late Cretaceous to Paleocene margin of western North America, *in* Hillhouse, J.W., ed., Deep structure and past kinematics of accreted terranes: International Union of Geodesy and Geophysics Geophysical Monograph 50, p. 101–111.
- University of Alaska, 1989, Placer mining in todays world: Proceedings of the eleventh annual conference on placer mining: Fairbanks, Alaska, Polar Run Printing, 83 p.
- Updike, R.G., Dearborne, L.L., Ulery, C.A., and Weir, J.L., 1984, Guide to the engineering geology of the Anchorage area: Anchorage, Alaska Geological Society, 72 p.
- Vallier, T.L., 1986, Tectonic implications of arc axis (Wallowa Terrane) and back-arc (Vancouver Island) volcanism in Triassic rocks of Wrangellia [abs.]: EOS (Transactions of the American Geophysical Union), v. 67, p. 1233.
- Vallier, T.L., and Herman, B.M., 1987, Petrology, age, and original tectonic setting of basalt from the St. George Basin COST No. 1 well, southern Bering Sea, *in* Hamilton, T.D., and Galloway, J.P., eds., Geologic Studies in Alaska by the Geological Survey during 1986: U.S. Geological Survey Circular 998, p. 165–169.
- Vallier, T.L., Karl, H.A., and Underwood, M.B., 1987, Geologic framework of the western Aleutian arc and adjacent North Pacific seafloor [abs.]: EOS (Transactions of the American Geophysical Union), v. 68, p. 1486.
- Vallier, T.L., McCarthy, J., Scholl, D.W., Stevenson, A.J., and O'Connor, R., 1984, Offshore structures in the Near Islands region, western Aleutian island arc [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 338.
- Vallier, T.L., O'Connor, R., and Harbert, W.P., 1983, Gabbro and amphibolite from Attu Island, Aleutian island arc, Alaska [abs.]: EOS (Transactions of the American Geophysical Union), v. 64, p. 870.
- Vallier, T.L., Scholl, D.W., Fisher, M.A., Bruns, T.R., von Huene, R., and Stevenson, A.J., 1994 volume, Geology of the Aleutian structural arc, Alaska, *in* Plafker, G., Jones, D.L., and Berg, H.C., eds., Geology of Alaska: Boulder, Colo., Geological Society of America, The Geology of North America.
- Van Alstine, D.R., 1986, Normal- and reversed-polarity synfolding CRM along the Brooks Range mountain front, northern Alaska: EOS (Transactions of the American Geophysical Union), v. 67, p. 269–270.
- Van Alstine, D.R., Bazard, D.R., and Whitney, J.W., 1985, Paleomagnetism of cores from the Yakutat well, Gulf of Alaska: Eos (Transactions, American Geophysical Union), v 66, p. 865
- Van der Voo, R., and Scotese, C., 1981, Paleomagnetic evidence for a large (2,000 km) sinistral offset along the Great Glen fault during Carboniferous time: Geology, v. 9, p. 583–589.
- Van der Voo, R., Jones, M., Grommé, C. S., Eberlein, G. D., and Churkin, M., Jr., 1980, Paleozoic paleomagnetism and northward drih of the Alexander terrane, southeastern Alaska: Journal of Geophysical Research, v. 85, p. 5281–5296.
- Van Dyke, W.D., 1980, Proven and probable oil and gas reserves, North Slope, Alaska: Alaska Department of Natural Resources, Division of Minerals and Energy Management, 11 p.
- Van Poollen, and Associates and Alaska Division of Oil and Gas, 1974, in place volumetric determination of reservoir fluids, Sadlerochit Formation, Prudhoe Bay Field: Anchorage, Alaska Department of Natural Resources, Division of Oil and Gas, 41 p.
- van de Kamp, P.C., 1988, Stratigraphy and diagenetic alteration of Ellesmerian sequence siliciclastic rocks, North Slope, Alaska, *in* Gryc, G., eds., Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982: U.S. Geological Survey Professional Paper 1399, p. 833–854.

- Vance-Plumley, P., Plumley, P.W., Coe, R.S., and Reid, J., 1984, Preliminary paleomagnetic results from three Ordovician carbonate sections in the McGrath quadrangle, central Alaska: EOS (Transactions of the American Geophysical Union), v. 65, no. 45, p. 866.
- Vandall, T.A., and Palmer, H.C., 1990, Canadian Cordilleran displacement: Paleomagnetic results for the Early Jurassic Hazelton Group, Terrane I, British Columbia, Canada: Geophysical Journal International, v. 103, p. 609–619.
- Vandervoort, D.J., 1985, Stratigraphy, paleoenvironment, and diagenesis of the Lower Ordovician York Mountain carbonates, Seward Peninsula, Alaska: Baton Rouge, Louisiana State University, Master's thesis, 141 p.
- Vann, I.R., Graham, R.H., and Hayward, A.B., 1986, The structure of mountain fronts: Journal of Structural Geology, v. 8, p. 215–227.
- Varne, R., 1985, Ancient subcontinental mantle; A source for K-rich orogenic volcanics: Geology, v. 13, p. 405–408.
- Veniaminov, I., 1840, Notes on the Islands of the Unalashka District: (Black, L. T., and Geoghegan, R. H., translators; Pierce, R. A., ed.): 1984 Limestone Press Edition, Kingston, Ontario, 511 p.
- Vincent, J.S., 1989, Late Pleistocene glacial advances, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 111–112.
- Vincent, J.S., 1990, Late Tertiary and Early Pleistocene deposits and history of Banks Island, southwestern Canadian Arctic Archipelago: Arctic, v. 43, p. 339–363.
- Vincent, J.S., 1992, The Sangamonian and early Wisconsinan glacial record in the western Canadian Arctic, *in* Clark, P.U., and Lea, P.D., eds., The last interglacial-glacial transition in North America: Boulder, Colo., Geological Society of America Special Paper 270, p. 233–252.
- Vincent, J.S., and Prest, V.K., 1987, The Early Wisconsinan history of the Laurentide Ice Sheet: Geographie physique et Quaternaire, v. 41, p. 199–213.
- Vincent, J.S., Carter, L.D., Matthews, J.V., Jr., and Hopkins, D.M., 1989, Joint Canadian-American investigation of the Cenozoic geology of the lowlands bordering the Beaufort Sea, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-American workshop: U.S. Geological Survey Circular 1026, p. 7–9.
- Vogt, P.R., Taylor, P.T., Kovacs, L.C., and Johnson, G.L., 1982, The Canada Basin; Aeromagnetic constraints on structure and evolution: Tectonophysics, v. 89, p. 295–336.
- Volynets, O.N., and 6 others, 1993, New data on volcanism in the rear zone of the eastern Aleutian arc (in Russian): Volcanology and Seismology, v. 4, p. 54–78.
- Volynets, O.N., and 5 others, 1993, Boninitic tendendes in lavas of the submarine Piip Volcano and surrounding area (far Western Aleutians): Geology, petrochemistry, and mineralogy: Volcanology and Seismology, v. 14, p. 1–22.
- Von Bargen, N., and Waff, H.S., 1986, Permeabilities, interfacial areas, and curvatures of partially molten systems; Results of numerical computations of equilibrium microstructures: Journal of Geophysical Research, v. 91, p. 9261–9276.
- von Drach, V., Marsh, B.D., and Wasserburg, G.J., 1986, Nd and Sr isotopes in the Aleutians; Multicomponent parenthood of island-arc magmas: Contributions to Mineralogy and Petrology, v. 92, p. 13–34.
- von Huene, R., 1989, Continental margins around the Gulf of Alaska, *in* Winterer, E.L., Hussong, D.M., and Decker, R.W., eds., The eastern Pacific Ocean and Hawaii: Boulder, Colo., Geological Society of America, The Geology of North America, v. N. p. 383–401.
- von Huene, Roland, Carr, W.J., McManus, D., and Holmes, M., 1971, Marine geophysical study around Amchitka Island, western Aleutian Islands, Alaska: U.S. Geological Survey Technical Letter 22, 31 p.
- von Huene, R., Crouch, J., and Larson, E., 1976, Glacial advance in the Gulf of Alaska area implied by ice-rafted material, *in* Cline, R.M., and Hayes, J.D., eds., Investigations of late Quaternary paleoceanography and paleoclimatology: Geological Society of America Memoir 145, p. 393–410.
- von Huene, R., Fisher, M.A., and Bruns, T.R., 1979, Continental margins of the Gulf of Alaska and late Cenozoic tectonic plate boundaries, *in* Sisson, A., ed., Proceedings of the 6th Alaska Geological Society Symposium: Anchorage, Alaska Geological Society, p. 11–130.
- von Huene, R., Fisher, M. A., and Bruns, T. R., 1987, Geology and evolution of the Kodiak margin, Gulf of Alaska, *in* Scholl, D.W., Grantz, A., and Vedder, J.G., eds., Geology and resource potential of the continental margin of western North America and adjacent ocean basins; Beaufort Sea to Baja Calif.: Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, v. 6, p. 191–212.

- Von Huene, Roland, Fisher, M.A., and Bruns, T.R., 1987, Geology and evolution of the Kodiak margin, Gulf of Alaska: *in* Scholl, D.W., Grantz, Arthur, and Vedder, J.G., eds., Circum-Pacific Council for Energy and Mineral Resources, Earth Science Series v. 6, Circum-Pacific Council for Energy and Mineral Resources, Houston, Tex., p. 229–268.
- von Huene, R., Fisher, M.A., McClellan, P.H., Box, S., and Ryan, H., 1985, North Pacific to Kuskokwim Mountains: Boulder, Colo., Geological Society of America Continent-Ocean Transect A2, scale 1:500,000.
- von Huene, R., Keller, G., Bruns, T.R., and McDougall, K., 1985, Cenozoic migration of Alaskan terranes indicated by paleontologic study, *in* Howell, D.G., ed., Tectonostratigraphic terranes of the circum-Pacific region: American Association of Petroleum Geologists Circum-Pacific Earth Science Series, no. 1, p. 121–136.
- von Huene, R., Moore, G.W., Moore, J.C., and Stephen, S.D., 1979, Cross section, Alaska Peninsula-Kodiak Island-Aleutian Trench; Summary: Geological Society of America Bulletin, v. 90, p. 417–430.
- Von Huene, Roland, Shor, G.G., and Wageman, J., 1979, Continental margin of the eastern Gulf of Alaska and boundaries of tectonic plates: *in* Watkins, J.S., Montdert, L., and Dickerson, P.W., eds., Geological and geophysical investigations of continental margins, American Association of Petroleum Geologists, Memoir 29, p. 273–290.
- von Kotzebue, O., 1821, A voyage of discovery into the South Sea and Behring's [Bering] Straits, for the purpose of exploring a northeast passage, undertaken in the years 1815 1818: London, Longman, Hurst, Rees, Orme, and Brown, v. 1 of 3v., 358 p.
- Vrolijk, P., Myers, G., and Moore, J.C., 1988, Warm fluid migration along tectonic melanges in the Kodiak accretionary complex, Alaska: Journal of Geophysical Research, v. 93, p. 10,313–10,324.
- Wadman, D.H., Lamprecht, D.E., and Mrosovsky, I., 1979, Joint geologic/ engineering analysis of the Sadlerochit reservoir, Prudhoe Bay field: Journal of Petroleum Technology, v. 31, p. 933_940.
- Waff, H.S., 1986, Introduction to special section on partial melting phenomena in Earth and planetary evolution: Journal of Geophysical Research, v. 91, p. 9217–9222.
- Wahrhaftig, C., 1944, Coal deposits of the Costello Creek basin, Alaska: U.S. Geological Survey Open-File Report 8, 8 p.
- Wahrhaftig, C., 1958, Quaternary geology of the Nenana River valley and adjacent parts of the Alaska Range, Part A of Quaternary and engineering geology in the central part of the Alaska Range: U.S. Geological Survey Professional Paper 293, p. 1–68.
- Wahrhaftig, C., 1965, Physiographic divisions of Alaska: U.S. Geological Survey Professional Paper 482, 52 p., 6 plates
- Wahrhaftig, C., 1968, Schists of the central Alaska Range, in Contributions to stratigraphy: U.S. Geological Survey Bulletin 1254–E, p. E1–E22.
- Wahrhaftig, C., 1970, Late Cenozoic orogeny in the Alaska Range[abs.]: Geological Society of America Abstracts with Programs, v. 7, p. 713–714.
- Wahrhaftig, C., 1970, Geologic map of the Healy D-4 quadrangle, Alaska: U.S. Geological Survey Geologic Map GQ-806, 1 sheet, scale 1:63,360.
- Wahrhaftig, C., 1973, Coal reserves of the Healy Creek and Lignite Creek coal basins, Nenana coal field, Alaska: U.S. Geological Survey Open-File Report 73–355, 6 p., 28 sheets.
- Wahrhaftig, C., 1986, The Cenozoic section in Suntrana, Alaska, *in* Hill, M.L., ed., Cordilleran section: Boulder, Colo., Geological Society of America Centennial Field Guide, v. 1, p. 445–450.
- Wahrhaftig, C., 1987, The Cenozoic section at Suntrana, Alaska, *in* Hill, M. L., ed., Cordilleran Section of the Geological Society of America: Boulder, Colo., Geological Society of America Centennial Field Guide, v. 1, p. 445–450.
- Wahrhaftig, C., and Hickcox, C.A., 1955, Geology and coal deposits, Jarvis Creek coal field, Alaska: U.S. Geological Survey Bulletin 989–G, p. 353–367, plates 10–12.
- Wahrhaftig, Clyde, Turner, D.L., Weber, F.R., and Smith, T.E., 1975, Nature and timing of movement on Hines Creek strand of Denali Fault system, Alaska: Geology, v. 3, no. 8, p. 463–466.
- Wahrhaftig, C., Wolfe, J.A., Leopold, E.B., and Lanphere, M.A., 1969, The coal-bearing group in the Nenana coal held, Alaska: U.S. Geological Survey Bulletin 1274–D, p. Dl–D30.
- Waldron, H.H., 1961, Geologic reconnaissance of Frosty Peak Volcano and vicinity, Alaska: U.S. Geological Survey Bulletin 1028–T, 31 p.
- Walker, D.A., Cate, D., Brown, J., and Racine, C., 1987, Disturbance and recovery of arctic tundra terrain; A review of recent investigations: Hanover, N.H., U.S. Army Cold Regions Research and Engineering Laboratory, CRREL, Report 87–11, 63 p.

- Walker, G.G., Kawasaki, K., and Osterkamp, T.E., 1987, Transient electromagnetic detection of subsea permafrost near Prudhoe Bay, Alaska, *in* Tailleur, I.L., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Pacific Section Society of Economic Paleontologists and Mineralogists and the Alaskan Geological Society, v. 2, p. 565–569.
- Walker, H.J., 1973, Morphology of the North Slope, *in* Britton, M.E., ed., Alaskan Arctic tundra: Arctic Institute of North America Technical Paper 25, p. 49–92.
- Walker, H.J., 1983, Erosion in a permafrost-dominated delta, *in* Permafrost, Proceedings, Fourth International Conference, Fairbanks, Alaska, July 17-22, 1983: Washington, D.C., National Academy Press, p. 1344–1349.
- Walker, H.J., 1988, Permafrost and coastal processes, *in* Permafrost, Proceedings, Fifth International Conference, Trondheim, Norway, Aug. 2 5, 1988: v. 33, Tapir, p. 35–42.
- Wallace, R.E., 1946, Terrain analysis in the vicinity of Northway, Alaska, with special reference to permafrost: U.S. Geological Survey Permafrost Program Progress Report 3, 34 p.
- Wallace, W.K. and Engebretson, D.C., 1982, Correlation between plate motions and Late Cretaceous to Paleocene magmatism in southwestern Alaska: EOS, (Transactions of the American Geophysical Union), v. 63, no. 45, p. 915.
- Wallace, W.K., 1981, Structure and petrology of a portion of a regional thrust zone in the central Chugach Mountains, Alaska: Seattle, University of Washington, Ph.D. dissertation, 253 p.
- Wallace, W.K., 1981, Structure and petrology of a regional thrust zone in the central Chugach Mountains, Alaska: Dissertation Abstracts International, v. 42, p. 1364–B.
- Wallace, W.K., 1983, Major lithologic belts of southwestern Alaska and their tectonic implications [abs.]: Geological Society of America Abstracts with Programs, v. 14, p. 406.
- Wallace, W.K., 1984, Deformation and metamorphism in a convergent margin setting, northern Chugach Mountains, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 339.
- Wallace, W.K., 1984, Mesozoic and Paleogene tectonic evolution of the southwestern Alaska Range; Southern Kuskokwim Mountains region [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 339.
- Wallace, W.K., and Engebretson, D.C., 1984, Relationships between plate motions and Late Cretaceous to Paleogene magmatism in southwestern Alaska: Tectonics, v. 3, no. 2, p. 295–315.
- Wallace, W.K., and Hanks, C.L., 1990, Structural provinces of the northeastern Brooks Range, Arctic National Wildlife Refuge, Alaska: American Association of Petroleum Geologists Bulletin, v. 74, p. 1100–1118.
- Wallace, W.K., Hanks, C.L., and Rogers, J.F., 1989, The southern Kahiltna terrane: Implications for the tectonic evolution of southwestern Alaska: Geological Society of America Bulletin, v. 101, p. 1389–1407.
- Wanek, A.A., and Callahan, J.E., 1969, Geology of proposed powersites at Deer Lake and Kasnyku Lake, Baranof Island, southeastern Alaska: U.S. Geological Survey Bulletin 1211–C, 25 p., scale 1:24,000.
- Wanek, A.A., and Callahan, J.E., 1971, Geologic reconnaissance of a proposed powersite at Lake Grace, Revillagigedo Island, southeastern Alaska: U.S. Geological Survey Bulletin 1211–E, 24 p.
- Wang, J., Newton, C.R., and Dunne, L., 1988, Late Triassic transition from biogenic to arc sedimentation on the Peninsular terrane: Puale Bay, Alaska Peninsula: Geological Society of America Bulletin, v. 100, p. 1466–1478.
- Wanless, R.K., Stevens, R.D., Lachance, G.R., and Edmonds, C.M., 1967, Age determinations and geological studies, K-Ar isotopic ages, Report 7: Geological Survey of Canada, Paper 66–17, 1 sheet, 120 p.
- Wanless, R.K., Stevens, R.D., Lachance, G.R., and Edmonds, C.M., 1968, Age determinations and geological studies, K-Ar isotopic ages, Report 8: Geological Survey of Canada Paper 67–2A, 141 p.
- Waring, G.A., 1917, Mineral springs of Alaska: U.S. Geological Survey WaterSupply Paper 418, 114 p.
- Waring, G.A., 1936, Geology of the Anthracite Ridge coal district, Alaska: U.S. Geological Survey Bulletin 861, 14 plates, 57 p.
- Warner, B.G., Clague, J.J., and Mathewes, R.W., 1984, Geology and paleoecology of a mid-Wisconsin peat from the Queen Charlotte Islands, British Columbia, Canada: Quaternary Research, v. 21, p. 337–350.
- Warner, J.D., and Southworth, D.D., 1985, Placer and lode sources of Niobium: Tofty, Alaska [abs.]: American Association of Petroleum Geologists, Pacific Section Programs with abstracts, p. 49.
- Warner, L.A., and Goddard, E.N., 1961, Iron and copper deposits of Kasaan Peninsula, Prince of Wales Island, southeastern Alaska: U.S. Geological Survey Bulletin 1090, 136 p.
- Washburn, A.L., 1950, Patterned ground, Revue Canadienne Geographie, v. 4, no. 34, p. 59.

- Washburn, A.L., 1956, Classification of patterned ground and review of suggested origins: Geological Society of America Bulletin, v. 67, p. 823–865.
- Washburn, A.L., 1973, Periglacial processes and environments: New York, St. Martin's Press, 320 p.
- Washburn, A.L., 1980, Geocryology; A survey of periglacial processes and environments: New York, Halsted Press, 406 p.
- Wasserburg, G.J., Eberlein, G.D., and Lanphere, M.A., 1963, Age of the Birch Creek Schist and some batholithic intrusions in Alaska [abs.]: Geological Society of America Special Paper 73, p. 258–259.
- Wayland, R.G., 1943, Gold deposits near Nabesna, Alaska: U.S. Geological Survey Bulletin 933B, p. 175-199.
- Wayland, R.G., 1960, The Alaska Juneau gold body: Neues Jahrbuch fur Mineralogie Abhandlungen, v. 94, p. 267–279.
- Wayland, R.G., 1961, Tofty tin belt, Manley Hot Springs district, Alaska: U.S. Geological Survey Bulletin 1058–1, p. 363–414.
- Waythomas, C.F., 1990, Late Quaternary stratigraphic framework of the Holitna lowland, southwest Alaska, *in* 19th Annual Arctic Workshop, March 8-10, Abstracts: Boulder, Colo., Institute of Arctic and Alpine Research, p. 91.
- Waythomas, C.F., 1990, Quaternary geology and late-Quaternary environments of the Holitna lowland, and Chuilnuk-Kiokluk Mountains region, interior southwestern Alaska: Boulder, University of Colo., Ph.D. dissertation, 268 p.
- Waythomas, C.F., Lea, P.D., and Walter, R.C., 1993, Stratigraphic context of Old Crow tephra, Holitna lowland, interior southwest Alaska: Quaternary Research, v. 40, p. 20–29.
- Weber, F.R., 1983, Glacial geology of the Yukon Tanana Upland; A progress report, *in* Thorson, R.M., and Hamilton, T.D., eds., Glaciation in Alaska: Fairbanks, University of Alaska Occasional Paper 2, p. 96–100.
- Weber, F.R., 1985, Late Quaternary glaciation of the Paviof Bay and Port Moller areas, Alaska Peninsula, *in* Bartsch-Winkler, S., ed., The United States Geological Survey in Alaska: accomplishments during 1984: U.S. Geological Survey Circular 967, p. 42–44.
- Weber, F.R., 1986, Glacial geology of the Yukon-Tanana Upland, *in* Hamilton, T.D., Reed, K.M., and Thorson, R.M., eds., Glaciation in Alaska; The geologic record: Anchorage, Alaska Geological Society, p. 79–98.
- Weber, F.R., and Foster, H.L., 1982, Tertiary (?) conglomerates and Quaternary faulting in the Circle quadrangle Alaska: *in* Coonrad, W.L., ed., The U.S. Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 58–60.
- Weber, F.R., and Hamilton, T.D., 1984, Glacial geology of the Mt. Prindle area, Yukon-Tanana Upland, Alaska, *in* Short notes on Alaskan geology, 1982-83: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 86, p. 42–48.
- Weber, F.R., and Turner, D.L., 1977, A late Tertiary thrust fault in the central Alaska Range, *in* Blean, K.M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U.S. Geological Survey Circular 751–B, p. B66–B67.
- Weber, F.R., and 8 others, 1988, Geologic framework, *in* Weber, F.R., McCammon, R.B., Rinehart, C.D., and Light, T.D., eds., Geology and mineral resources of the White Mountain National Recreation Area, east-central Alaska: U.S. Geological Survey Open-File Report 88–284, p. 4–58.
- Weber, F.R., Foster, H.L., Keith, T.E.C., and Dusel-Bacon, C., 1978, Preliminary geologic map of the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 78–529–A, scale 1:250,000.
- Weber, F.R., Hamilton, T.D., Hopkins, D.M., Repenning, C.A., and Haas, H., 1981, Canyon Creek; A late Pleistocene vertebrate locality in interior Alaska: Quaternary Research, v. 16, p 167–180.
- Weber, F.R., McCammon, R.B., Rinehart, C.D., Light, T.D., and Wheeler, K.L., 1988, Geology and mineral resources of the White Mountains National Recreational Area, east-central Alaska: U.S. Geological Survey Open-File Report 88–284, 32 plates, scale 1:250,000, 120 p.
- Weber, F.R., Smith, T.E., Hall, M.H., and Forbes, R.B., 1985, Geologic guide to the Fairbanks-Livengood area, east-central Alaska: Anchorage, Alaska Geological Society, 44 p.
- Webster, J.H., 1984, Preliminary report on a large granitic body in the Coast Mountains, northeast Petersburg quadrangle, southeastern Alaska, *in* Reed, K.M., and Bartsch-Winkler, S., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p.116–118.
- Wegner, W.W., 1972, The Denali Fault (Hines Creek Strand) in the northeastern Mt. McKinley National Park, Alaska: Madison, Wisconsin, University of Wisconsin, Master's thesis, 1 sheet, scale 1:63,360, p. 74.

- Welsh, T.F., 1986, ⁴⁰Ar/³⁹Ar correlation study of the Haley Creek Complex with the Strelna Formation: Princeton, New Jersey, Princeton University, Senior thesis.
- Werner, L.J., 1977, Metamorphic terrane, northern Coast Mountains west of Atlin Lake, British Columbia: Geological Survey of Canada Paper 77–1A, p. 267–269.
- Werner, L.J., 1978, Metamorphic terrane, northern Coast Mountains west of Atlin Lake, British Columbia: Geological Survey of Canada Paper 78–1A, p. 69–70.
- Werner, M.R., 1987, Tertiary and Upper Cretaceous heavy—oil sands, Kuparuk River Unit area, Alaska North Slope, *in* Meyer, R.F., ed., Exploration for heavy crude oil and natural bitumen: American Association of Petroleum Geologists Studies in Geology 25, p. 537–547.
- Westcott, E., and Turner, D.L., eds., 1981, Geothermal reconnaissance survey of the central Seward Peninsula, Alaska: Fairbanks, University of Alaska Geophysical Institute Report UAG R–284, 123 p.
- Wescott, E.M., and Turner, D.L., 1983, Geothermal energy resource exploration of the eastern Copper River basin, Alaska: Geothermal Resources Council Transactions, v. 7, p. 211–213.
- Westgate, J., 1988, Isothermal plateau hssion-track age of the late Pleistocene Old Crow tephra, Alaska: Geophysical Research Letters, v. 15, p. 376–379.
- Westgate, J.A., Hamilton, T.D., and Gorton, M.P., 1983, Old Crow tephra; A new late Pleistocene stratigraphic marker across north-central Alaska and western Yukon Territory: Quaternary Research, v. 19, p. 38–54.
- Westgate, J.A., Walter, R.C., Pearce, G.W. and Gorton, M.P., 1985, Distribution, stratigraphy, petrochemistry, and paleomagnetism of the late Pleistocene Old Crow tephra in Alaska and the Yukon: Canadian Journal of Earth Sciences, v. 22, p. 893–906.
- Wheatley, M.R., and Rock, N.M.S., 1987, Spider; A Macintosh program to generate normalized multi-element "spidergrams": American Mineralogist, v.73, p. 919–921.
- Wheeler, J.O., Brookfield, A.J., Gabrielse, H., Monger, J.W.H., Tipper, H.W. and Woodsworth, G.J., 1988, Terrane map of the Canadian Cordillera: Geological Survey of Canada Open File Report 1894, scale 1:2,000,000, 9 p.
- Wheeler-Crowder, K.L., Forbes, R.B., Weber, F.R., and Rinehart, C.D., 1987, Lithostratigraphy of the Ordovician Fossil Creek volcanics with petrology and geochemistry of included metabasalts, White Mountains, east-central Alaska: U.S. Geological Survey Circular 998, p. 70–73.
- Whelan, J.K., Farrington, J.W., and Tarafa, M.E., 1986, Maturity of organic matter and migration of hydrocarbons in two Alaskan North Slope wells, *in* Leythaeuser, D., and Rulikotter, J., eds., Advances in organic chemistry; Part 1, Petroleum geochemistry: Organic Geochemistry, v. 10, no. 1–3, p. 207–219.
- White, A.J.R., and Chappell, B.W., 1977, Ultrametamorphism and granitoid genesis: Tectonophysics, v. 43, p. 7–22.
- White, D.F., and Williams, D.L., 1975, Introduction, *in* White, D.F., and Williams, D.L., eds., Assessment of geothermal resources of the United States; 1975: U.S. Geological Survey Circular 726, p. 1–4.
- White, W.M., and Patchett, J., 1984, Hf-Nd-Sr isotopes and incompatible element abundances in island arcs; Implications for magma origins and crust-mantle evolution: Earth and Planetary Science Letters, v. 67, p. 167–185.
- Whitmore, F.C., Jr., and Gard, L.M., Jr., 1977, Steller's Sea Cow (Hydrodamalis gigas) of Late Pleistocene age from Amchitka, Aleutian Islands, Alaska: U.S. Geological Survey Professional Paper 1036, 8 plates, 19 p.
- Whitney, J.A., and Stormer, J.C., Jr., 1983, Igneous sulfides in the Fish Canyon Tuff and the role of sulfur in calc-alkaline magmas: Geology, v. 11, p. 99–102.
- Wilbur, S., Siok, J.P., and Mull, C.G., 1987, A comparison of two petrographic suites of the Okpikruak Formation; a point count analysis, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 441–447.
- Wilcox, R.E., 1959, Some effects of recent volcanic ash falls with especial reference to Alaska: U.S. Geological Survey Bulletin 1028–N, p. 409–476.
- Wilcox, R.E., Harding, T.P., and Seely, D.R., 1973, Basic wrench tectonics: American Association of Petroleum Geologists Bulletin, v. 57, no. 1, p. 74–96.
- Wiley, T.J., 1986, Sedimentary basins of offshore Alaska and adjacent regions: U.S. Geological Survey Open-File Report 86–35, 118 p.

- Wilkinson, Katy, 1987, Geology of a subarctic tin-bearing batholith, Circle Hot Springs, Alaska: Fairbanks, University of Alaska, Mineral Industry Research Laboratory Report 74, 70 p.
- Williams, G.D., 1985, Thrust tectonics in the south-central Pyrenees: Journal of Structural Geology v. 7, no. 1, p. 11-17.
- Williams, H., ed., 1958, Landscapes of Alaska: Their geologic evolution: Berkeley and Los Angeles, University of California Press, 148 p.
- Williams, J.R., 1960, Cenozoic sediments beneath the central Yukon Flats, Alaska, *in* Geological Survey Research 1960: U.S. Geological Survey Professional Paper 400–B, p. B329.
- Williams, J.R., 1962, Geologic reconnaissance of the Yukon Flats district, Alaska: U.S. Geological Survey Bulletin 1111–H, p. 289–331.
- Williams, J.R., 1965, Ground water in permafrost regions; An annotated bibliography: U.S. Geological Survey Water-Supply Paper 1792, 294 p.
- Williams, J.R., 1970, Ground water in the permafrost regions of Alaska: U.S. Geological Survey Professional Paper 696, 83 p.
- Williams, J.R., 1983, Engineering-geologic maps of northern Alaska, Meade River quadrangle: U.S. Geological Survey Open-File Report 83–294, 29 p., scale 1:250,000.
- Williams, J.R., 1983, Engineering-geologic maps of northern Alaska, Wainwright quadrangle: U.S. Geological Survey Open-File Report 83–457, scale 1:250,000, 28 p.
- Williams, J.R., 1986, New radiocarbon dates from the Matanuska Glacier bog section, *in* Bartsch-Winkler, S., and Reed, K.M., eds., Geological studies in Alaska by the U.S. Geological Survey during 1985: U.S. Geological Survey Circular 978, p. 85–88.
- Williams, J.R, 1989, A working glacial chronology for the western Copper River Basin, Alaska, *in* Carter, L.D., Hamilton, T.D., and Galloway, J.P., eds., Late Cenozoic history of the interior basins of Alaska and the Yukon; Proceedings of a joint Canadian-America workshop: U.S. Geological Survey Circular 1026, p. 81–84.
- Williams, J.R., and Carter, L.D., 1984, Engineering-geologic maps of northern Alaska, Barrow quadrangle: U.S. Geological Survey Open-File Report 84–124, 39 p., 2 sheets, scale 1:250,000.
- Williams, J.R., and Galloway, J.P., 1986, Map of western Copper River Basin, Alaska, showing lake sediments and shorelines, glacial moraines, and location of stratigraphic sections and radiocarbon-dated samples: U.S. Geological Survey Open-File Report 86 390, 30 p., scale 1:250,000.
- Williams, P.J., and Smith, M.W., 1989, The frozen earth; Fundamentals of geocryology: Cambridge, Cambridge University Press, 306 p.
- Wilson, D., and Cox, A., 1980, Paleomagnetic evidence for tectonic rotation of Jurassic plutons in Blue Mountains, eastern Oregon: Journal of Geophysical Research, v. 85, p. 3681–3689.
- Wilson, F.H., 1976, Map showing potassium-argon ages from the Big Delta quadrangle, Alaska: U.S. Geological Survey Open-File Report 76–436, 1 sheet, scale 1:250,000.
- Wilson, F.H., 1977, Some plutonic rocks of southwestern Alaska, a data compilation: U.S. Geological Survey Open-File Report 77–501, 8 p., 4 sheets, scale 1:1,000,000.
- Wilson, F.H., 1977, Some plutonic rocks of southwestern Alaska, a data Map showing preliminary results of K-Ar studies in the Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Open-File Report 78–1064, 1 sheet, scale 1:250,000.
- Wilson, F.H., 1980, Late Mesozoic and Cenozoic tectonics and the age of porphyry copper prospects, Chignik and Sutwik Island quadrangles, Alaska Peninsula: U.S. Geological Survey Open-File Report 80–543, 5 plates, 99 p.
- Wilson, F.H., 1981, Map and table showing radiometric ages of rocks in the Aleutian Islands and Alaska Peninsula: U.S. Geological Survey Open-File Report 81–471, 1 sheet, scale 1:1,000,000, 23 p.
- Wilson, F.H., 1982, Map and tables showing preliminary results of K-Ar age studies in the Ugashik quadrangle, Alaska Peninsula: U.S. Geological Survey Open-File Report 82–140, 1 sheet, scale 1:250,000.
- Wilson, F.H., 1985, Meshik and Aleutian arcs; Tertiary volcanism on Alaska Peninsula, Alaska [abs.]: Pacific Section, American Association of Petroleum Geologists Program with Abstracts, p. 32.
- Wilson, F.H., 1985, The Meshik arc; An Eocene to earliest Miocene magmatic arc on the Alaska Peninsula: Fairbanks, Alaska Division of Geological and Geophysical Surveys Professional Report 88, 14 p.

- Wilson, F.H., 1990, Stepovak Bay Group Volcanoes, *in* Wood, C. A., and Kienle, J., eds., Volcanoes of North America: Cambridge University Press, p. 55–56.
- Wilson, F.H., and Cox, D.P., 1983, Geochronology, geochemistry, and tectonic environment of porphyry mineralization in the central Alaska Peninsula: U.S. Geological Survey Open-File Report 83–783, 24 p.
- Wilson, F.H., and Shew, N., 1982, Apparent episodicity of magmatic activity deduced from radiometric age determinations, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 13–15.
- Wilson, F.H., and Smith, J.G., 1976, Map showing potassium-argon ages from the Goodnews quadrangle, Alaska: U.S. Geological Survey Open-File Report 76–437, scale 1:250,000.
- Wilson, F.H., Case, J.E., and Detterman, R.L., 1985, Preliminary description of a Miocene zone of structural complexity in the Port Moller and Stepovak Bay quadrangles, Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 54–56.
- Wilson, F.H., Dadisman, S.V., and Herzon, P.L., 1979, Map showing radiometric ages of rocks in southeastern Alaska: U.S. Geological Survey Open-File Report 79–594, 33 p., scale 1:1,000,000.
- Wilson, F.H., Detterman, R.L., and Case, J.E., 1985, The Alaska Peninsula terrane; A definition: U.S. Geological Survey Open-File Report 85–470, 20 p.
- Wilson, F.H., Detterman, R.L., and DuBois, G.D., Geologic framework of the Alaska Peninsula, southwest Alaska and the Alaska Peninsula terrane: U.S. Geological Survey Bulletin 1969–B, scale 1:500,000 (in press).
- Wilson, F.H., Detterman, R.L., Miller, J.W., and Case, J.E., 1995, Geologic map of the Port Moller, Stepovak Bay, and Simeonof Island quadrangles, Alaska Peninsula, Alaska: U.S. Geological Survey Miscellaneous Investigations Map 1–2272, 2 sheets, scale 1:250,000.
- Wilson, F.H., Gaum, W.C., and Herzon, P.L., 1981, Map and tables showing geochronology and whole-rock geochemistry, Chignik and Sutwik Island quadrangles, Alaska: U.S. Geological Survey Map MF-1053-M, 3 sheets, scale 1:250,000
- Wilson, F.H., Smith, J.G., and Shew, N., 1985, Review of radiometric data from the Yukon Crystalline Terrane, Alaska and Yukon Territory: Canadian Journal of Earth Sciences, v. 22, no. 4, p. 525–537.
- Wilson, F.H., Weber, F.R., and Angleloni, L., 1984, Late Cretaceous thermal overprint and metamorphism, southeast Circle quadrangle, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 340.
- Wilson, J.T., 1968, Static or moble earth, the current scientific revolution: Proceedings of the American Philosophical Society, v. 112, p. 309–320.
- Winkler, G.R., 1973, Geologic map of the Cordova A-7 and A-8, B-6, B-7 and B-8 quadrangles, Hinchenbrook Island, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-531, scale 1:63,360.
- Winkler, G.R., 1976, Deep-sea fan deposition of the lower Tertiary Orca Group, eastern Prince William sound, Alaska, *in* Miller, T.P., ed., Recent and ancient sedimentary environments in Alaska (Symposium Proceedings): Anchorage, Alaska Geological Society, p. R1–R20.
- Winkler, G. R., 1992, Geologic map and summary geochronology of the Anchorage 1°x3° quadrangle, southern Alaska: U.S. Geological Survey Miscellaneous Investigations Series Map 1–2283, 1 sheet, scale 1:250,000.
- Winkler, G.R., and 5 others, 1981, Layered gabbroic belt of regional extent in the Valdez quadrangle, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B74–B76.
- Winkler, G.R., and MacKevett, E.M., Jr., 1981, Geologic map of the McCarthy C-7 quadrangle, Alaska: U.S. Geological Survey Geologic Quadrangle Map GQ-1533, scale 1:63,360.
- Winkler, G.R., and Plafker, G., 1981, Geological map and cross sections of the Cordova and Middleton Island quadrangles, southern Alaska: U.S. Geological Survey Open-File Report 81–1164, 1 sheet, scale 1:250,000, 25 p.
- Winkler, G.R., and Plafker, G., 1981, Tectonic implications of framework grain mineralogy of sandstone from the Yakutat Group, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B68–B70.
- Winkler, G.R. and Plafker, George, 1993, Geologic map and cross sections of the Cordova and Middleton Island quadrangles, southern Alaska: U. S. Geological Survey Miscellaneous Investigation Series I–1984, 1 sheet and text, scale, 1:250,000.
- Winkler, G.R., McLean, H., and Plafker, G., 1976, Textural and mineralogical study of sandstones from the onshore Gulf of Alaska Tertiary province, southern Alaska: U.S. Geological Survey Open-File Report 76–198, 48 p.

- Winkler, G.R., Miller, R.J., and Case, J.E., 1981, Blocks and belts of blueschist and greenschist in the northwestern Valdez quadrangle, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B72–B74.
- Winkler, G.R., Miller, M.L., Hoekzema, R.B., and Dumoulin, J.A., 1984, Guide to the bedrock geology of a traverse of the Chugach Mountains from Anchorage to Cape Resurrection: Anchorage, Alaska Geological Society, 40 p.
- Winkler, G.R., Miller, R.J., MacKevett, E.M., Jr., and Holloway, C.D., 1981, Map and summary table describing mineral deposits in the Valdez quadrangle, southern Alaska: U.S. Geological Survey Open-File Report 80–892–B, 2 sheets, scale 1:250,000.
- Winkler, G.R., Miller, R.J., Silberman, M.L., Grantz, A., Case, J.E., and Pickthorn, W.J., 1981, Layered gabbroic belt of regional extent in the Valdez quadrangle, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B74–B76.
- Winkler, G.R., Silberman, M.L., Grantz, A., Miller, R.J., and MacKevett, E.M., Jr., 1981, Geologic map and summary geochronology of the Valdez quadrangle, southern Alaska: U.S. Geological Survey Open-File Report 80–892A, scale 1:250,000, 2 sheets.
- Winslow, M.A., and Johnson, L.L., 1989, Prehistoric human settlement patterns in a tectonically unstable environment: outer Shumagin Islands, southwestern Alaska: Geoarchaeology, v. 4, no., 4, p. 297–318.
- Wintle, A.G., and Westgate, J.A., 1986, Thermoluminescence age of Old Crow tephra in Alaska: Geology, v. 14, p 594–597.
- Wirth, K.R., and Bird, J.M., 1988, Hot-spot volcanism in northeastern Alaska?: Trace element and isotope evidence from Yukon Flats basalts [abs.] *in* EOS, (Transactions of the American Geophysical Union), v. 69, no. 44, p. 1457.
- Wirth, K.R., and Bird, J.M., 1992, Chronology of ophiolite crystallization, detachment, and emplacement: Evidence from the Brooks Range, Alaska: Geology, v. 20, p. 75–78.
- Wirth, K.R., Harding, D.J., and Bird, J.M., 1987, Basalt geochemistry, Brooks Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 19, p. 464.
- Wise, D.U., and 7 others, 1984, Fault-related rocks; Suggestions for terminology: Geology, v. 12, p. 391–394.
- Witmer, R., Haga, H., and Mickey, M.B., 1981, Biostratigraphic report of thirty-three wells drilled from 1975 to 1981 in National Petroleum Reserve in Alaska: U.S. Geological Survey Open-File Report 81–1166, 47 p.
- Wittbrodt, P.R., Stone, D.B., and Turner, D.L., 1989, Paleomagnetism and geochronology of St. Matthew Island, Bering Sea: Canadian Journal of Earth Sciences, v. 26, p. 2116–2129
- Woidneck, K., Behrman, P., Soule, C., and Wu, J., 1987, Reservoir description of the Endicott field, North Slope, Alaska, *in* Tailleur, I., and Weimer, P., eds., Alaskan North Slope geology: Bakersfield, Calif., Society of Economic Paleontologists and Mineralogists, Pacific Section, and Alaska Geological Society, Book 50, vols. 1 and 2, p. 43–59.
- Wold, R.J., Woodzick, T.L., and Ostenso, N.A., 1970, Structure of the Beaufort Sea Continental Margin: Geophysics, v. 35, p. 849–861.
- Wolf, D.A., 1987, Identification of endmembers for magma mixing in Little Sitkin volcano, Alaska: Albany, State University of New York, Master's thesis, 210 p.
- Wolfe, J.A., 1981, A chronologic framework for Cenozoic megafossil floras of northwestern North America and its relation to marine geochronology, in Armentrout, J. M., ed., Pacific Northwest Cenozoic biostratigraphy: Geological Society of America Special Paper 184, p. 39–42.
- Wolfe, J.A., and McCoy, S., Jr., 1984, Comment on "Model for the origin of the Yakutat block, an accreting terrane in the northern Gulf of Alaska": Geology, v. 12, p. 564–565.
- Wolfe, J.A., and Tanai, T., 1980, The Miocene Seldovia Point flora from the Kenai Group, Alaska: U.S. Geological Survey Professional Paper 1105, 25 plates, 52 p.
- Wolfe, J.A., and Tanai, T., 1987, Systematics, phylogeny, and distribution of *Acer* (Maples) in the Cenozoic of Western North America: Journal of the Faculty of Science of Hokkaido University, Series 4, v. 22, p. 1–246.
- Wolfe, J.A., and Toshimasa, T., 1980, The Miocene Seldovia Point flora from the Kenai Group, Alaska: U.S. Geological Survey Professional Paper 1105, 52 p.
- Wolfe, J.A., and Wahrhaftig, C., 1970, The Cantwell Formation of the central Alaska Range: U.S. Geological Survey Bulletin 1294–A, p. A41–A46.

- Wolf, J.A., Hopkins, D.M., and Leopold, E.B., 1966, Tertiary stratigraphy and paleobotany of the Cook Inlet region, Alaska: U.S. Geological Survey Professional Paper 398–A, 29 p.
- Wolf, L.W., Stone, D.B., and Davies, J.N., 1991, Crustal structure of the active margin, south-central Alaska: An interpretation of seismic refraction data from the Trans-Alaska Crustal Transect: Journal of Geophysical Research, v. 96, p. 16,455–16,469.
- Wood, C., and Kienle, J., 1990, Volcanoes of North America: London, Cambridge University Press, 354 p.
- Wood, D.A., 1979, A variably veined suboceanic upper mantle; Genetic significance for mid-ocean ridge basalts from geochemical evidence: Geology, v. 7, p. 499–503.
- Wood, D.A., 1980, The application of a Th-Hf-Ta diagram to problems of tectonomagmatic classification and to establishing the nature of crustal contamination of basaltic lavas of the British Tertiary Volcanic Prvoince: Earth and Planetary Science Letters, v. 50, p. 11–30.
- Wood, G.H., and Bour, W.V., 111, 1988, Coal map of North America: U.S. Geological Survey Special Geologic Map, scale 1:5,000,000.
- Wood, G.H., Jr., Kehn, T.M., Carter, M.D., and Culberston, W.C., 1983, Coal resource classification system of the U.S. Geological Survey: U.S. Geological Survey Circular 891, 65 p.
- Wood, G.V., and Armstrong, A.K., 1975, Diagenesis and stratigraphy of the Lisburne Group limestones of the Sadlerochit Mountains and adjacent areas, northeastern Alaska: U.S. Geological Survey Professional Paper 857, 47 p.
- Woodcock, J.R., and Carter, N.C., 1976, Geology and geochemistry of the Alice Arm molybdenum deposits: Canadian Institute of Mineralogy Special v. 15, p. 462–475.
- Woodsworth, G.J., Crawford, M.L., and Hollister, L.S., 1983, Metamorphism and structure of the Coast Plutonic Complex and adjacent belts, Prince Rupert and Terrace areas, British Columbia: Geological Association of Canada Field Trip Guide 14, 62 p.
- Woodsworth, G.J., Loveridge, W.D., Parrish, R.R., and Sullivan, R.W., 1983, Uranium-lead dates from the Central Gneiss Complex and Ecstall pluton, Prince Rupert map area, British Columbia: Canadian Journal of Earth Sciences, v. 20, p. 1475–1483.
- Woodward-Clyde Consultants, 1981, Final Report on seismic studies for the Susitna Hydroelectric Project, prepared for Acres American Inc., Buffalo, N.Y, 35 p.
- Woodward-Lundgren and Associates, 1974, Summary report basis for pipeline design for active-fault crossings for the Trans-Alaska pipeline system: unpublished report prepared for Alyeska Pipeline service Company, Houston, Tex., 115 p., appendicies.
- Woollard, G.P., 1979, The new gravity system—changes in international gravity base values and anomaly values: Geophysics, v. 44, no. 8, p. 1352–1366.
- Woollard, G.P., and Rose, J.C., 1963, International Gravity Measurements: Society of Exploration Geophysicists, Tulsa, Okla,, 518 p.
- Woolson, J.R., and others, 1962, Seismic and gravity surveys of the Naval Petroleum Reserve no. 4 and adjoining areas, Alaska: U.S. Geological Survey Professional Paper 304–A, 19 pl., scale 1:1,000,000, 25 p.
- Worrall, D.M., 1991, Tectonic history of the Bering Sea and the evolution of Tertiary strike-slip basins of the Bering shelf: Geological Society of America Special Paper 257, 120 p.
- Wright, C.W., 1904, The Porcupine placer district, Alaska: U.S. Geological Survey Bulletin 236, 35 p.
- Wright, J.E., and Haxel, G., 1982, A garnet two-mica granite, Coyote Mountains, southern Arizona; Geologic setting, uranium-lead isotopic systematics of zircon, and nature of the granite source region: Geological Society of America Bulletin, v. 93, p. 1176–1188.
- Wrucke, C.T., Kelley, J.S., and Armstrong, A.K., 1989, Preliminary geologic map and structural setting of the Katakturuk Dolomite in the Sadlerochit Mountains, northeastern Alaska: U.S. Geological Survy Open-File Report 89–123, 11 p., scale 63,360.
- Wyllie, P.J., 1983, Experimental studies on biotite- and muscovite-granites and some crustal magmatic sources, *in* Atherton, M.P., and Gribble, C.D., eds., Migmatites, melting, and metamorphism: Shiva Publishing, Ltd., p. 12–26.
- Wyllie, P.J., 1983, Experimental and thermal constraints on the deep-seated parentage of some granitoid magmas in subduction zones, *in* Atherton, M.P., and Gribble, C.D., eds., Migmatites, melting, and metamorphism: Nantwich, Cheshire, Shiva Publishing Ltd., p. 37–51.

- Wyllie, P.J., and Huang, W.L., 1976, Carbonation and melting reactions in the system CaO-MgO-SiO₂-CO₂ at mantle pressures with geophysical and petrological applications: Contributions to Mineralogy and Petrology, v. 54, p. 140–173.
- Yanshin, A.L., 1966, Tectonic map of Eurasia: Moscow, Geological Institute, Academy of Sciences, USSR, scale 1:5,000,000. (in Russian)
- Yao, A., Matsuoka, A., and Nakatani, T., 1982, Triassic and Jurassic radiolarian assemblages in southwest Japan: News of Osaka Micropaleontologists, Special v. 5, p. 27–43.
- Yeend, W.E., 1977, Tertiary and Quaternary deposits at the Palisades, central Alaska: U.S. Geological Survey Journal of Research, v.5, no.6, p. 747–752.
- Yeend, W., 1981, Placer gold deposits, Mt. Hayes quadrangle, Alaska, *in* Silberman, M.L. Field, C.W., and Berry, N.L., eds., Proceedings of the Symposium of Mineral Deposits of the Pacific Northwest: U.S. Geological Survey Open-File Report 81–355, p. 74–83.
- Yeend, W., 1981, Placer gold deposits, Mount Hayes quadrangle, Alaska, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B68.
- Yeend, W., 1982, Placers and placer mining, Circle District, Alaska, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 64.
- Yehle, L.A., and Schmoll, H.R., 1989, Surficial geologic map of the Anchorage B7 SW quadrangle, Alaska: U.S. Geological Survey Open-File Report 89–318, scale 1:25,000.
- Yoder, H.S., 1969, Calcalkalic andesites; Experimental data bearing on the origin of their assumed characteristics, *in* McBirney, A.R., ed., Proceedings of the Andesite Conference: Oregon Department of Geology, Mines and Industry Bulletin, v. 65, p. 77–89.
- Yogodzinski, G.M., Rubenstone, J.L., Kay, S.M., and Kay, R.W., 1993, Magmatic and tectonic development of the Western Aleutians: An oceanic arc in a strike-slip setting: Journal of Geophysical Research, v. 98, p. 11,807–11,834.
- Yogodzinski, G.M., Volynets, O.N., Koloskov, A.V., and Seliverstov, N.I., 1994, Magnesian andesites and the subduction component in a strongly calcalkaline series at Piip Volcano in the far Western Aleutian arc: Journal of Petrology, v. 34 [in press].
- Yole, R.W., and Irving, E.M., 1980, Displacement of Vancouver Island; paleomagnetic evidence from the Karmutsen Formation: Canadian Journal of Earth Sciences, v. 17, p. 1210–1228.
- Young, F.G., 1973, Mesozoic epicontinental, flyschoid, and molassoid depositional phases of Yukon's north slope, *in* Aitken, J.D., and Glass, D.J., eds., Proceedings of the Symposium on the Geology of the Canadian Arctic: Geological Association of Canada and the Canadian Society of Petroleum Geologists, p. 181–202.
- Young, G.M., 1982, The late Proterozoic Tindir Group, east-central Alaska; Evolution of a continental margin: Geological Society of America Bulletin v. 93, no. 8, p. 759–783.
- Yount, M.E., 1984, Redoubt Volcano, Cook Inlet, Alaska; Mineralogy and chemistry [abs.]: Geological Society of America Abstracts with Programs, v. 16, p. 340–341.
- Yount, M.E., 1990, Dana volcano, *in* Wood, C.A., and Kienle, J., eds., Volcanoes of North America: Cambridge University Press, p. 54–55.
- Yount, M.E., Miller, T.P., Emanuel, R.P., and Wilson, F.H., 1985, Eruption in an ice-filled caldera, Mount Veniaminof, Alaska Peninsula, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The U.S. Geological Survey in Alaska: accomplishments during 1983: U.S. Geological Survey Circular 945, p. 58–60.
- Yount, M.E., Wilson, F.H. and Miller, J.W., 1985, Newly discovered Holocene volcanic vents, Port Moller and Stepovak Bay quadrangles, Alaska Peninsula, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The U.S. Geological Survey in Alaska: accomplishments in 1983: U.S. Geological Survey Circular 945, p. 60–62.
- Zartman, R.E., and Tera, F., 1973, Lead concentration and isotopic composition in five peridotite inclusions of probable mantle origin: Earth and Planetary Science Letters, v. 20, p. 54–66.
- Zayatz, M.R., 1987, Petrography of the Baird Mountains schistose lithologies, northwestern Alaska: U.S. Geological Survey Circular 998, p. 49–52.
- Zellers, S.D., 1990, Foraminiferal biofacies analysis of the Yakataga formation, Icy Bay, Alaska—Insights into Pliocene glaciomarine paleoenvironments of the Gulf of Alaska: Palaios, v. 5, p. 273–296.

- Zellers, S.D., Lagoe, M.B., and Ray, J.C., 1992, Paleoclimatic and depositional significance of an offshore Yakataga Fm. section, eastern Gulf of Alaska Impact on a Neogene paleoclimatic framework for the far North Pacific [abs.]: Geological Society of America Abstracts with Programs, v. 24, p. 93.
- Zen, E-an, and Hammarstrom, J.M., 1984, Mineralogy and petrogenetic model for the tonalite at Bushy Point, Revillagigedo Island, Ketchikan 1° by 2° quadrangle, southeastern Alaska, *in* Bartsch-Winkler, S., and Reed, K.M., eds., The United States Geological Survey in Alaska: accomplishments during 1982: U.S. Geological Survey Circular 939, p. 118–123.
- Zen, E-an, and Hammarstrom, J.M., 1984, Magmatic epidote and its petrologic significance: Geology, v. 12, p. 515–518.
- Ziegler, J.A., 1988, Preliminary geologic map of Franklin Mountains between forks of the Canning River, Arctic National Wildlife Refuge, northeastern Brooks Range, Alaska: Fairbanks, Alaska Division of Geological and Geophysical Surveys Public Data-File 88–6b, scale 1:25,000, 16 p.
- Ziegler, J.A., 1989, A detailed structural analysis across a regional unconformity, forks of the Canning River, Franklin Mountains, northeastern Brooks Range, Alaska: Fairbanks, University of Alaska, Master's thesis, scale, 5 sheets, 1:25,000, 302 p.
- Ziegler, P.A., 1988, Laurussia—The Old Red Continent, *in* McMillan, N.J., Embry, A.F., and Glass, D.J., eds., Devonian of the world, v.1: Regional syntheses Canadian Society of Petroleum Geologists Memoir 14, p. 15–48.
- Zielinski, R.A., and Lipman, P.W., 1976, Trace-element variations at Summer Coon volcano, San Juan Mountains, Colorado, and the origin of continental-interior andesite: Geological Society of America Bulletin, v. 87, p. 1477–1485.
- Zies, E.G., 1929, The Valley of Ten Thousand Smokes; 1, The fumarolic incrustations and their bearing on ore deposition; 2, The acid gases contributed to the sea during volcanic activity: National Geographic Society Contribution Technical Papers, Katmai Series 4, p. 1–79.
- Zijderveld, J.D.A., 1967, A. C. demagnetization of rocks; Analysis of results, *in* Collinson, D.W., Creer, K.M., and Runcorn, S.K., eds., Methods in paleomagnetism: New York, Elsevier, p. 254–286.
- Zimmerman, J., and Frank, C.O., 1982, Possible obduction-related metamorphic rocks at the base of the ultramafic zone, Avan Hills complex, De Long Mountains, *in* Coonrad, W.L., ed., The United States Geological Survey in Alaska: accomplishments during 1980: U.S. Geological Survey Circular 844, p. 27–28.
- Zimmerman, J., and Soustek, P.G., 1979, The Avan Hills ultramafic complex, De Long Mountains, Alaska, *in* Johnson, K.M., and Williams, J.R., eds., The United States Geological Survey in Alaska: accomplishments during 1978: U.S. Geological Survey Circular 804–B, p. B8–B11.
- Zimmerman, J., Frank, C.O., and Bryn, S., 1981, Mafic rocks in the Avan Hills ultramafic complex, De Long Mountains, *in* Albert, N.R.D., and Hudson, T., eds., The United States Geological Survey in Alaska: accomplishments during 1979: U.S. Geological Survey Circular 823–B, p. B14–B15.
- Zonenshain, L.P., Savostin, L.A., and Sedov, A.P., 1984, Global paleogeodynamic reconstructions for the last 160 million years: Geotectonics, v. 18, p. 181–195.
- Zuffa, G.G., Nilsen, T.H., and Winkler, G.R., 1980, Rock-fragment petrography of the Upper Cretaceous Chugach terrane, southern Alaska: U.S. Geological Survey Open-File Report 80–713, 28 p.
- Zwart, H.J., and 7 others, 1967, A scheme of metamorphic facies for the cartographic representation of regional metamorphic belts: International Union of Geological Sciences Geological Newsletter, v. 1967, p. 57–72.